The American Artisan
And Hardware Record

Vol. 52. No. 11. CHICAGO, SEPTEMBER 15, 1906. $2.00 Per Year.

COLUMBUS BOLT WORKS,
COLUMBUS, OHIO.
Bolts, Rivets, Nuts, Washers, Carriage Forgings, Etc.
CATALOG AND PRICES ON APPLICATION.

THE WIZARD
Adjustable Flexible Hanger.
Prevents Doors from Dragging or Binding
Stronger Than Any Other Flexible Hanger, Easily Adjusted and Runs Smoothly.
Ask your jobber or write us.

Safety Door Hanger Co.
Ashland, Ohio. Hamilton, Ont.

GARLAND NUT & RIVET Co. PITTSBURGH

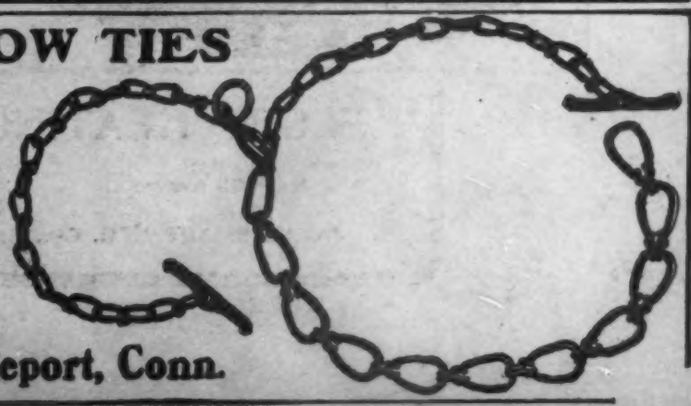
SMALL RIVETS
FOR ALL PURPOSES
SELECTED MATERIAL
UNIFORMITY
GOOD APPEARANCE
SQUARE CUT-OFF
QUICK SHIPMENTS
SMALL BOLTS AND PUMP CHAIN
GARLAND NUT & RIVET CO.
PITTSBURGH, PA.

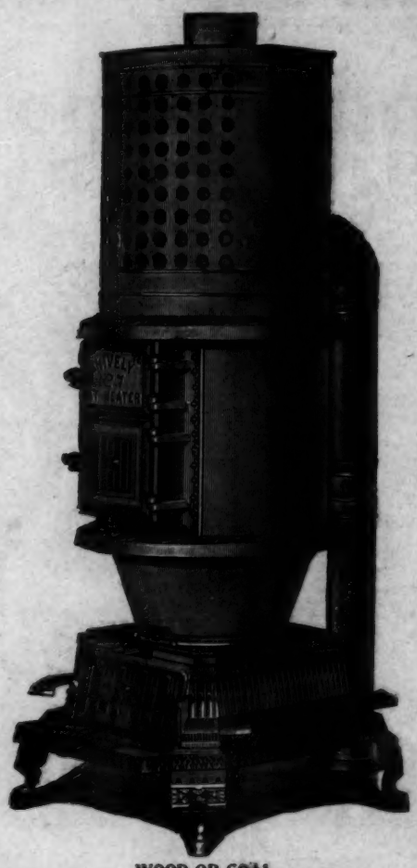
"American Seal"
Elastic Oil Roof Cement
Asbestos Furnace Cement
Stove Putty
Stove Lining
The very best made!
Sold by:
Perkins Roofing & Supply Co., Western Agents, 235 Lake Street, CHICAGO, ILL.
Stockhoff Supply Co., Southwestern Agents, ST. LOUIS, MO.

TRYING to do business without advertising is like winking at a girl in the dark you know what you are doing but nobody else does.

Wash Boilers
STAMPED TINWARE
JAPANNED WARE
GREY ENAMELED WARE
OUR PRICES WILL INTEREST YOU
STAR ENAMELING & STAMPING CO., Pittsburgh, Pa.

BROWN WELDLESS COW TIES
Twice as strong as welded chain.
A sample (full length) delivered for **one cent.**
Any Retail Dealer sending postal card request with name of Jobber secures sample prepaid.
Sole Manufacturers
The Bridgeport Chain Co., Bridgeport, Conn.





WOOD OR COAL
20-inch and 22-inch Fire-pot
Price less than $1.00 an inch of Fire-pot
Several Hundred in Use

THE MAN WHO INVENTED AND PATENTED
THE

Shively Pure Air Stove

Received His Early Education in

A "CROSS ROAD" SCHOOL HOUSE

He remembered the cold floor—the frosted windows, and that the scholars near the stove were suffering from heat while those seated on the side aisles were suffering from cold.

HIS INVENTION OVERCOMES THE TROUBLES

THE SHIVELY PURE AIR STOVE draws the cold air from the floor and replaces it with warm air. In addition to this it maintains a strong and constant circulation from and to every part of the room, maintaining nearly an even temperature at every point.

THIS STOVE MAY BE EASILY CONNECTED TO DRAW AIR FROM OUT-OF-DOORS, heating it to the proper temperature and diffusing it through the room in a constant flowing stream.

One of these stoves will increase the average attendance and scholarship of almost any rural school.

THEY ARE EASILY SOLD TO SCHOOL BOARDS
THEY PAY A GOOD PROFIT—DO YOU WANT IT?

Stove & Range Co. of Pittsburgh

PITTSBURGH, PA.

What will the Harvest Be?

Suppose you continue selling light-weight hot air furnaces.

What's going to happen?

What will the Harvest be?

The home-owners and builders in your locality will soon realize that you do only a cheap class of work—that you cut prices to land contracts.

You'll soon find the better class of heating work going to your higher-priced competitors—and the cheap work is gladly left for you!

Get out of this rut!

Investigate the KELSEY Exclusive Agency.

We'll point out a road for you that will not only lead to a much better class of heating work—but you'll make a much larger profit on every job.

And when the KELSEY job is done, it's a credit to you, and an advertisement of your good work for years to come.

Ask for our Proposition, and we'll gladly send it to you.

KELSEY HEATING CO., SYRACUSE, N. Y.

New York City:
156 Fifth Avenue

Western Sales Agents:
COOK & VAN EVERA CO.
38 E. Lake St., Chicago

JAMES SMART MFG. CO., Brockville, Ontario, Sole Makers for Canada

Natural Gas Heating Stoves

New Patterns
made in
ALL SIZES
Suitable for
Parlor,
Bath Rooms,
Offices or
Store Rooms.

"Quick Comfort" Gas Heating Stoves

are
Perfect
in
Operation
Strongly
Built
and
constructed
so
that
all
parts
are
Radiating
Surface.

RINGEN STOVE CO.

Div. of American Stove Co.

ST. LOUIS, MO.

SAN FRANCISCO, CAL.
115-121 Townsend Street

PORTLAND, ORE
4th and Davis Sts

"It's On Legs"

LORAIN Steel Range

Built Up From The Floor

We want a live dealer in every town to sell the Lorain. Catalogue and discount upon applicatoin.

MANUFACTURED BY

National Stove Co. Division American Stove Co. **Lorain, Ohio**

Western Branch,
318 Vine Street, ST. LOUIS, MO.

Philadelphia Branch
205 CHURCH STREET

LORAIN RANGES ARE ALSO SOLD BY

MARSHALL WELLS CO., Duluth, Minn., Winnipeg, and Portland, Oregon
PACIFIC STOVE CO., Los Angeles and Oak'and, Cal.

FOSTER'S WINNER

Our Latest Steel Range

Foster's Winner is clearly up-to-date in all respects. It embodies every thoroughly good feature known to modern steel range making.

Some of Its Points—Body of heavy, polished Wellsville steel riveted every two inches and asbestos-lined throughout; balanced oven door, swing ash-pit door, wood extension fire-box taking 24-inch wood, duplex grate, heavy cast linings, cast encased reservoir with large enamelled tank; full sized ovens running 18x21x12 inches and 20x21x12 inches.

Practical Value and Attractive Prices

THE FOSTER STOVE CO., Ironton, Ohio

"BANNER"

The Banner Quality Range is one of unquestioned merit and individuality. A pleasing combination of best material, good workmanship and art.

QUALITY STOVES RANGES SURE TO PLEASE

We Guarantee it to Operate Perfectly

"Exclusive finish and features" are found in our goods. Ask us for samples of advertising which we furnish free.

"SPLENDID RESULTS"

QUALITY STOVE & RANGE CO., Belleville, Ill.

A GREAT NEW SPECIALTY! COLE'S PATENT HIGH OVEN RANGE

DESTINED TO PROVE ONE OF THE BIGGEST SELLERS IN THE HISTORY OF THE STOVE BUSINESS.

The big money in the stove business has been made in the past by the dealers who have been successful in getting the agency for the original good specialties which have been put on the market and the same will be true in the future.

This New Original Specialty is a great success. It has been thoroughly tested by more than 100 of our agents, some of whom have sent in 3rd and 4th orders since giving it a thorough test.

We apply our Patent Hot Blast Combustion and Air Tight Construction to this new specialty and it is the greatest fuel saver and best Range ever placed on the market.

REASONS WHY IT SELLS.

1st. The High Oven saves stooping and back aches.

2nd. You get breakfast with the soft or hard coal put in the night before.

3rd. The Oven is always under perfect control.

4th. It occupies much less space on the kitchen floor than any other range and the round body makes it possible to sweep all around and under the range.

5th; **We guarantee** the baking qualities equal to any other range at any price. That you get a saving of 30% over other ranges with soft coal and that it is more economical with hard coal and crushed coke than any other range.

Like Cole's Original Hot Blast this new specialty will be imitated by other manufacturers but it will be the dealers who get the agency for the Original who will build up the trade and make the money.

We want one exclusive agent in every good town for our four great profit making Range, specialties—Cole's Patent High Oven Range, Cole's Coleized Steel Hot Blast Cole's Original Air Tight Wood Stoves and Cole's Original Hot Blast Coal Stoves.

Those of our agents who have not yet ordered a stock of Cole's Patent High Oven Ranges should do so at once, and dealers in towns where we have no agency should write us at once for terms and prices. Write today. Tomorrow may be too late.

COLE MANUFACTURING CO., 3218-38 So. Western Ave. CHICAGO

What You Do, DO WELL!

If you sell a customer a heating system, give him the best. He will be pleased—the job will be a recommendation for you. Every user of a

Mueller, All Cast, Double Radiator Furnace

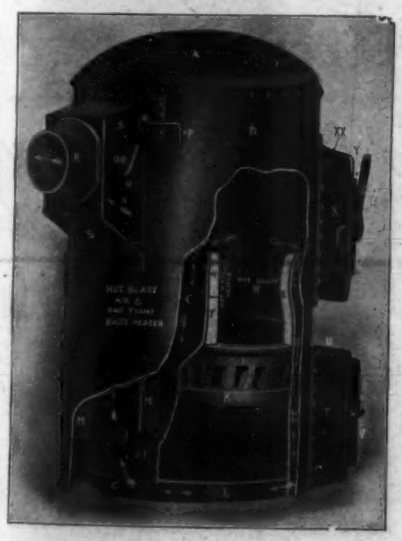
is pleased, and is an unsalaried salesman for the dealer who installs them.

Satisfied users talk about them to their friends and neighbors—their friends and neighbors will ask for *Mueller* furnaces when ready to buy a heating system. It's *the* furnace to sell if you wish to establish a reputation in the heating business.

Don't you wish to become one of our customers? It will pay you.

L. J. MUELLER FURNACE CO.
Established 1857
191 Reed Street, Milwaukee

EVOLUTION OF THE PERFECT FURNACE



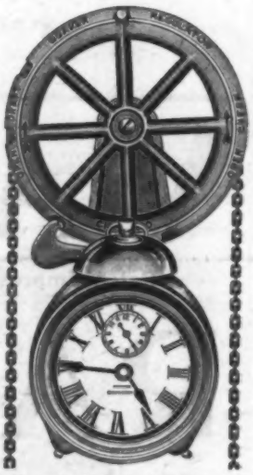
The new and better way of home heating, plainly told and finely illustrated in the new Quaker Catalog No. 20.

It's yours for the asking.

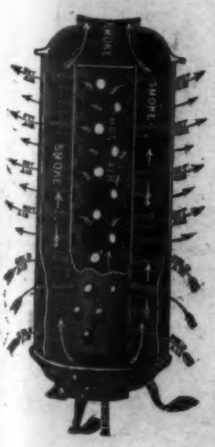
We manufacture complete Heating Plants,

Warm Air and Hot Water

Offices and Exhibit Rooms:
40 Dearborn Street, Chicago, Ill.
Factory: Chicago Heights.



QUAKER MFG. COMPANY



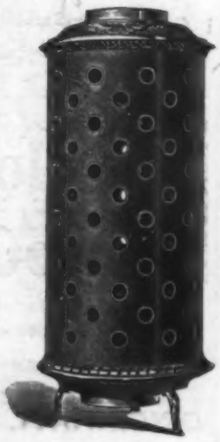
Save ½ Your Fuel

BY USING THE

ROCHESTER RADIATOR

Satisfaction guaranteed or money refunded.
Over 100,000 of them in use.
Fits any stove or furnace.
Price from $2.00 to $12.00.
We make the original and genuine "ROCHESTER RADIATOR."
We do not sell to catalogue houses.
For Hard or Soft Coal, Wood or Gas.
We refer all inquiries, to you from your town, when you carry a stock of our Radiators.
We guarantee our radiators not to interfere with or choke the draught, they are easily cleaned.
One square inch of radiating surface directly over the hot current is better than six in a drum, or side heater, with perpendicular tubes.
Write for descriptive catalogue and prices.

ROCHESTER RADIATOR CO., 120 Furnace St., Rochester, N. Y.



A NEW "LOW DOWN" JUNIOR CROWN WARM AIR FURNACE

WITH CAST FRONT AND CAST DRUM

Adapted to the use of Hard or Soft Coal.
Suitable for use in Low Cellars.

HEAVY CASTINGS
LOTS OF RADIATING SURFACE
EASY TO MANAGE
ECONOMICAL IN CONSUMPTION OF FUEL

Lowest List-Priced Furnace on the Market of Equal Quality

Write for Circular

MANUFACTURED BY

The March-Brownback Stove Co.

Pottstown, Pa.

VAN'S RANGE

Patent Improved Wrought Steel Portable

For Hotels, Restaurants, Public Institutions, Boarding Houses, and Private Families. All kinds of Hotel Implements for culinary purposes. Manufactured and for sale by

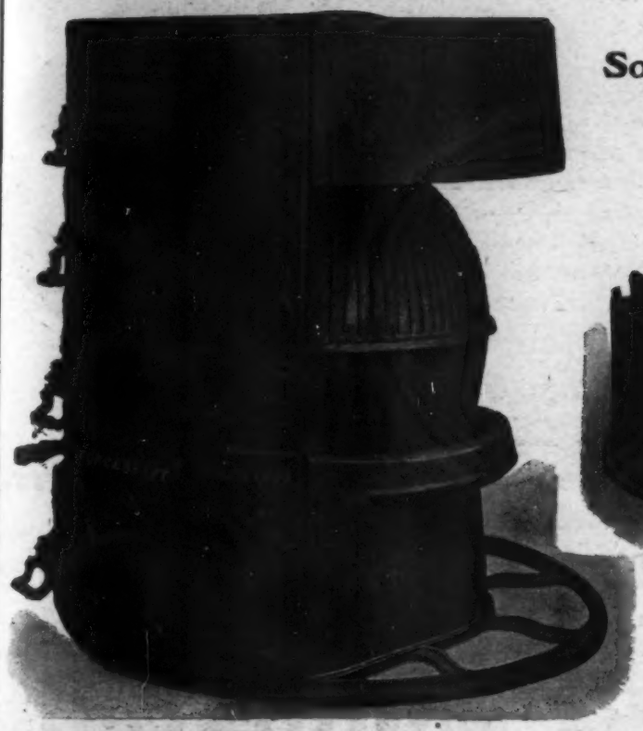
The John Van Range Company

Southwest Corner
5th and Broadway

CINCINNATI, - - - - - OHIO

THE RADIANT HOME FORCE DRAFT FURNACE

Original Air Blast Fire Pot with Force Draft Ring



FOUR SIZES. Nos. 322, 324, 326, 328.

Burns every Kind and Quality of

Soft Coal, Coke and Lignite.

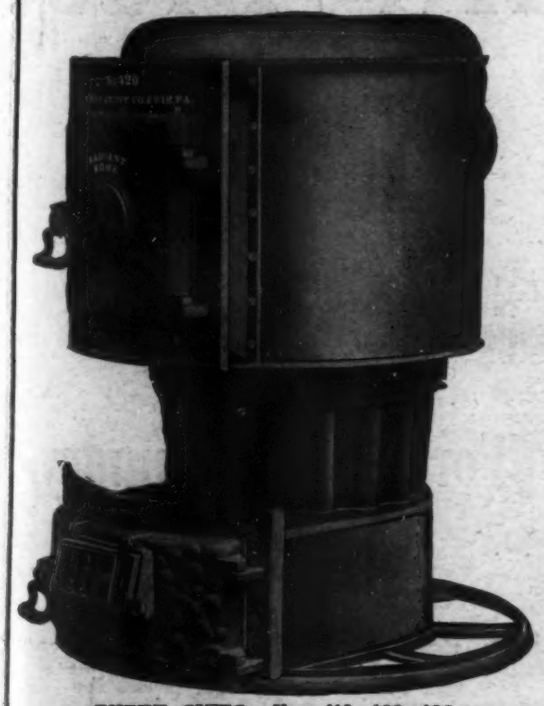
PERFECT COMBUSTION.

Soft Coal Burned as Cleanly as Hard Coal.

LARGE ONE-PIECE RADIATOR
LARGE DOUBLE FEED DOORS

Most Economical Saving fully one half fuel during season over any other make.

Only Correct Method for Burning All Kinds of Soft Coal.



THREE SIZES. Nos. 418, 420, 422.

A LEADER

High Grade, Low Price, Powerful Heater

For Soft Coal, Hard Coal, Coke, Lignite and Wood.

AIR BLAST FIRE POT. LARGE HEAVY RADIATOR.
EXTRA LARGE FEED DOOR.

Largest Manufacturers of Strictly High Grade

STOVES, RANGES AND FURNACES

GERMER STOVE COMPANY

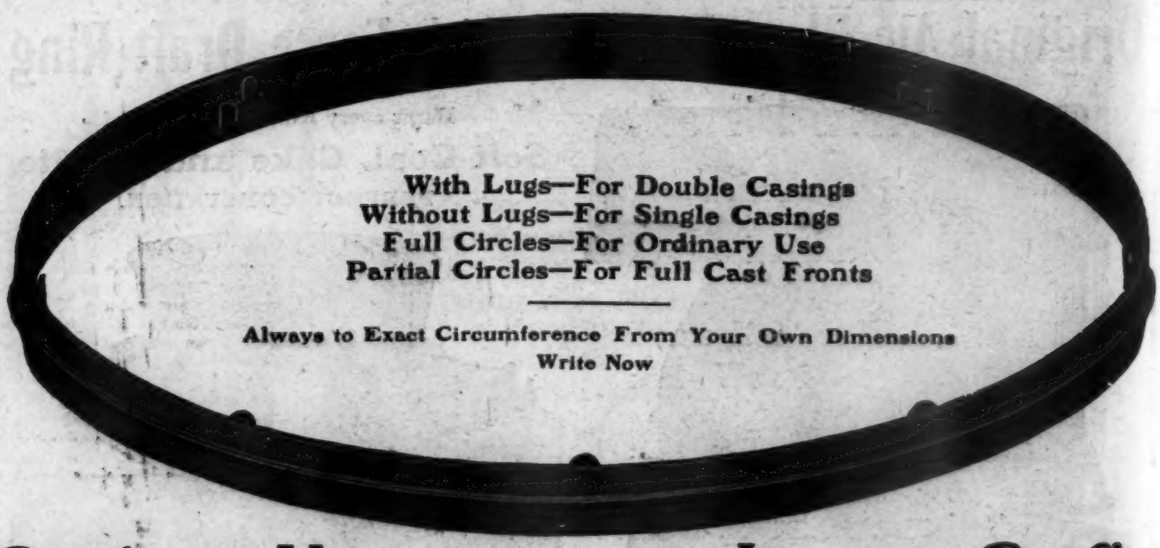
Western Branch:
231-247 NEWBERRY AVE.
CHICAGO, ILL.

Main Offices and Foundries:
Erie, Pa.

STEEL CASING RINGS

Are Made to Conform to Individual Requirements in Every Respect

Never Break——————Circles Perfect



Ready to Use——————Increase Profits

THE WALWORTH RUN FOUNDRY CO., 27th St., S. W., Cleveland, O.

Makers of Fine Grey Iron Castings **Mfrs. of Semi-Steel Registers**

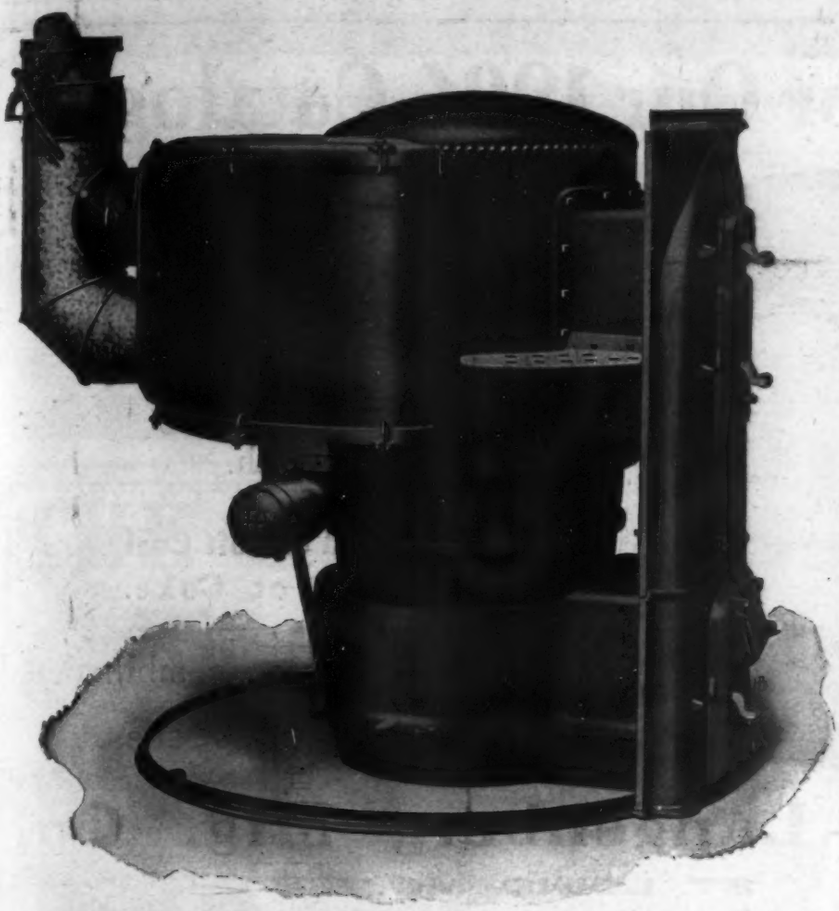
Monarch Air Blast

All the advantages of our famous MONARCH plus the air blast. This is a sectional upper fire pot constructed so that oxygen is fed into and above the fuel burning the gases, assuring economy, cleanliness. It is the most practical soft coal furnace offered the trade.

Forest City Foundry & Mfg. Co.

CLEVELAND, OHIO

Mfrs. The Imperial, Niagara and Combination Furnaces, Registers, Mail Boxes, Hitching and Sash Weights, Etc. Write for our new Catalog.



A New 1906 Model Magee Boston Heater

"B" Series

CAST-POT MODEL

The latest development of one of the most famous Magee Models. It possesses several new features that give an increase both in efficiency and convenience of operation.

The Double Feed Door with large Feed Mouth is an especial convenience. The large surface of the Revertible Flue Radiator is clearly shown, also Direct and Indirect Smoke Flue connections and clean-out opening. Every detail makes for convenience, cleanliness and fuel economy.

With the well established high standard of Magee Construction is combined a design that presents the fewest possible joints and gives ample stability to resist long and severe service.

Magee Furnace Co.

Office and Sample Rooms
38 Union Street, Boston, Mass.

Write for Catalogue and Prices to

LOTT-BURTON CO.
General Western Sales Agents
86 Lake Street, Chicago, Ill.

Boynton Warm Air Furnaces, Hot Water Heaters, Steam Boilers

are the result of 56 years practical experience.

For more than half a century the **BOYNTON** line has been the standard.

We make Furnaces of cast iron, or steel, or combination of both—portable or brick set—for hard coal, soft coal, wood lignite, or any fuel, and are adapted for any climate.

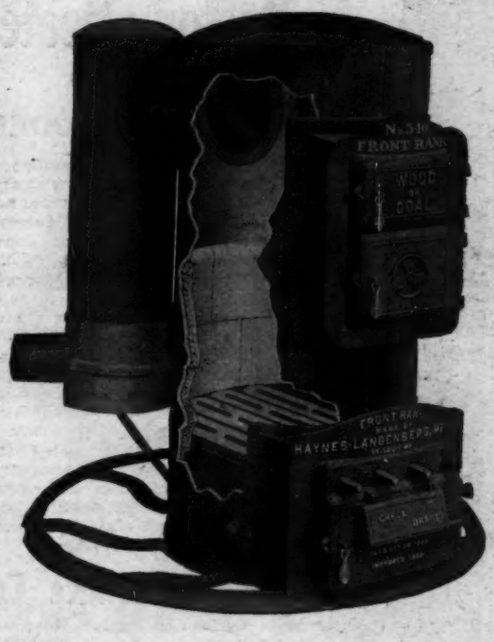
Our Steam and Hot Water Heaters Always Lead.

Write for our complete Catalogs.

THE BOYNTON FURNACE COMPANY,

147-149 Lake Street, CHICAGO
207-209 Water St., NEW YORK

Write for Our 1906 Catalogue



THE

"Front Rank" Steel Furnaces

are well named. Every dealer should know its worth.

Burns Hard or Soft Coal and Wood or Coke.

Uses any hot-water combination.

IT IS A 20 YEAR SUCCESS.

Haynes-Langenberg Mfg. Co.

ST. LOUIS, MO.

RICHARDSON & BOYNTON CO.

Manufacturers

Warm Air Furnaces

Hot Water and Steam Boilers

Tank and Laundry Heaters

SEND FOR LATEST CATALOGUE

NEW YORK CHICAGO BOSTON

DON'T FOR THE PAY

BLACK KID

STOVE POLISH

IF NOT THE BEST YOU EVER USED

PUT UP IN 5-lb. CANS

NICKEL PLATE STOVE POLISH CO.
MANUFACTURERS, CHICAGO

PRICE, 65c PER CAN

THE GILT EDGE RADIUM

has been studied out with a view to **practicability** and **comfort** in every detail.

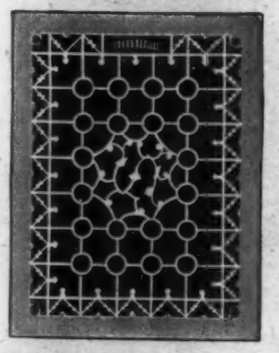
The air entering at the front in the **Gilt Edge Radium** is controlled so as to give greatest **Uniformity of Heat in the Fire-Pot.**

Greater efficiency cannot be found in any other "Horse-Shoe" Furnace.

See Our Catalogue

R. J. Schwab & Sons Co.

. · THE FURNACE MEN · .
MILWAUKEE, WISCONSIN



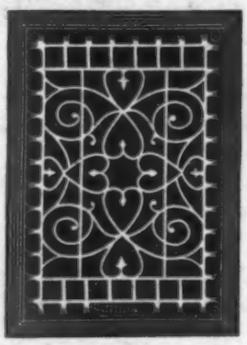
REGISTERS

All cast warm air Registers, neat in design and of superior finish. Are interchangeable with all first-class makes.

Remember we do not belong to the Association. Are in a position to quote lowest prices and can give Prompt Delivery.

Our Own Foundry! Unlimited Capacity!

Write for catalogue and discounts.



STANDARD REGISTER CO., :: Cleveland, Ohio

Register Department of The Standard Foundry & Mfg. Co.

From Ogden Johnston & Co., Carbondale, Ill.:

Please take our advertisement out. We have secured results. Your paper certainly reaches the craft. Long may it flourish!

9-5

REGISTERS : FACES . BORDERS

in every conceivable style, shape, design and material, made by

THE FERROSTEEL CO., Cleveland, Ohio

FERROSTEEL CAST—Mechanism and Finish Perfect, Designs Artistic and Attractive.
FERROSTEEL MODIFIED STEEL—Face Cast, Bottom Wrought Steel, Air Capacity Large, Designs all Styles.
FERROSTEEL WROUGHT STEEL—The most rigid made. Air Capacity greater than all Other Plain Lattice Wrought Steel Goods.

New Catalogue Just Out—FREE. Prices Rock Bottom. Our Record is Our ☞

Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority

MONCRIEF
Warm Air Furnaces

Combine SIMPLICITY, DURABILITY, ECONOMY and CLEANLINESS IN USE

SPECIALTIES
- All Cast Iron
- Moncrief Duplex Grate
- Large Radiating Surface
- Top Return Flue
- Double Fire Pot
- Large Grate Surface

HENRY & SCHEIBLE CO.
6-8-10 Long Street, CLEVELAND, O.
Sales Agent—J. C. KIMMEL, 5314 East 15th Street, Kansas City, Missouri

The Auer

is the one register on the market that affords a foot rest and foot warmer. It also ventilates the room. It has adjustable valve and is the most ornamental register made. The Auer is guaranteed to be free from all defects in either material or workmanship.

Auer Register Co.
403 Long Avenue Cleveland, Ohio

Warmth on the Floor

The Only Floor Warm Register Manufactured

C. H. FOSTER
3403 Bell Ave.
ST. LOUIS, MO.

Maker Largest Line of Wall Registers

The LENOX HOTEL IN BUFFALO

Modern. Highest Grade. Fireproof.

OUR OWN ELECTRIC CARRIAGES, EXCLUSIVELY FOR PATRONS, operate between the Hotel, Depots, Wharves & Business District every few minutes.

EUROPEAN PLAN

Rates $1.50 per day and upward.

GEORGE DUCHSCHERER, Proprietor.

The Most Particular

customers are satisfied when using a "THATCHER" Tubular Furnace.

The TUBULAR Furnace is easily operated, and has no delicate or complicated parts to get out of order.

In fact it is so durable that it will outlast six to eight ordinary furnaces—and with a great saving of fuel.

It will pay you to write at once for latest prices and catalogs.

56 Years on the Market.

THATCHER FURNACE CO.,

110-112-114-116 BEEKMAN STREET
NEW YORK

PROGRESSIVE DEALERS

Stanton Upright Steel

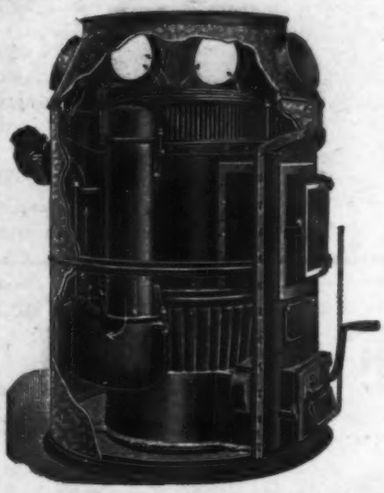
Notwithstanding the fact that Manufacturers who are not equipped for making a steel Furnace are using every effort to prevent it, progressive dealers are rapidly getting in line with the fact that STEEL FURNACES when properly constructed are a great improvement over the old cast iron kind.

We are pioneers in the manufacture of Steel Furnaces, and our long experience puts us in position to offer you the best.

Write for prices and description of our full line.

THE STANTON HEATER CO.
MARTINS FERRY, OHIO

Floral City Furnaces



were designed to meet the demand for a heater that would burn hard coal, soft coal and wood equally well. Some important changes have recently been made and it will be to your advantage to secure our latest catalog.

Tireless care, skilled workmanship and perfect castings unite in making these furnaces reliable.

Monroe Foundry & Furnace Co.
MONROE, - MICHIGAN.

ANDREW SNYDER, ALDEN, IA., WRITES:

"I would be lost without

THE AMERICAN ARTISAN

Every hardware dealer and especially every tin and sheet metal worker should not be without it."

The Robinson Hot Blast.

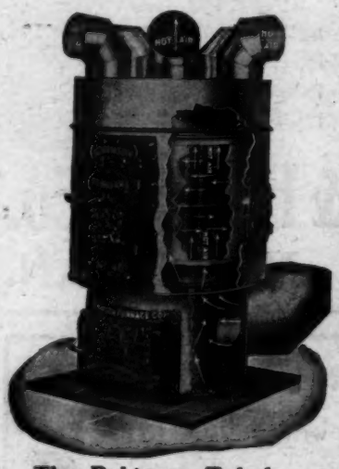
Twenty-seven years in the warm air furnace business is the record of the

"ROBINSON"

You will find our Furnaces at both ends of the furnace world. Our **"BIG TWO"** hold the palm against all others, regardless of climate or fuel.

Robinson Furnace Co.
Established 1879.
107-109 Lake St., CHICAGO

Have you seen our New Catalogue and price list?



The Robinson Tubular.

J. F. LEWIS, Cisco, Ill., *writes:* *I cannot get along without THE AMERICAN ARTISAN.*

THE APEX FURNACE
Simple as a common stove

NO CHANCE for the **Apex** to get out of order or go wrong.

THAT'S WHAT furnace users want, something that they won't be afraid of. Something that any member of the family can operate successfully. All cast iron and very heavy and durable.

Write for Catalog.

COOK & VAN EVERA
38 & 40 Lake Street
CHICAGO
Western Distributors

ROOD & McINTYRE
KANSAS CITY, MO.
Southwestern Distributors

Youngstown Furnace and Supply Co.
YOUNGSTOWN, OHIO

NATURAL GAS FURNACE

The "MANEST"

will heat any house, better and cheaper and with less labor than any other system.

Write for the agency in your locality.

The MANNEN & ESTERLY CO.
Sole Manufacturers. CLEVELAND, O.

The "Manest" can also be attached to any Coal Furnace.

There Are No Better
FURNACES
Than those made by the

GRAFF FURNACE CO.
of New York City

In successful use for 25 Years.

Largest variety of styles and sizes.

For Western trade we have established a warehouse and sales agency at

Decatur, Ill.

C. M. BARNETT
SALES AGENT

THE B. RUBY RANGE

Four Hole Type

For Hard Coal, Soft Coal or Wood

Embodies all modern improvements. Has large oven, large reservoir, modern fire box equipment, and large ash pit.

A handsomely ornamented range and a perfect worker.

What is your name and address. If you sell stoves we will send you our latest catalog.

SOUTH ERIE IRON WORKS, SOUTH ERIE, PA.

CHAMPION

Hot Water Combination Boilers

"They Fit Any Furnace"

RING SECTION.

(*Furnished tapped for return, as shown in cut, or tapped top and bottom if so ordered.*)

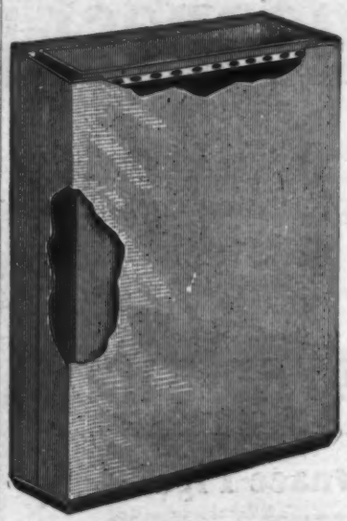
The **Champion** is made with base section and rings, and is thus adjustable, according to the amount of radiation to be used and the height of the furnace dome. The **sections** are connected with heavy threaded nipples, making all joints **absolutely tight.** The **Champion** does the work, no matter what kind of fuel is used. Each boiler is tested to 100 pounds hydraulic capacity before leaving factory and is **guaranteed** not to leak. Made in five sizes diameter. Write for price list.

FRANK D. STOLZ
Manufacturer
156 Webster Ave. CHICAGO

THERMOSTATS

SPRAGUE DAMPER & VALVE REGULATORS Non-Electric.
10 years in use. Thousands giving satisfaction; they are guaranteed; also Sprague Electrics, and automatic checks for Steam, Hot Water and Hot Air Heaters of all kinds.
HOWARD THERMO. CO., - West, Oswego, N. Y.

GREEN FURNACE PIPE



Our Double and Single Furnace Pipe and Fittings are easily and quickly put together because they are perfectly made by skilled mechanics. We would suggest that you find out the freight rate on this class of goods from Des Moines to your station and compare it with that from any competing point. We have an immense stock and can always ship your orders promptly. We shall be glad to receive your request for our catalogue and discounts.

Green Foundry & Furnace Works
DES MOINES, IOWA

C. De Witt Wagner, 40[illegible] Third Ave., Cedar Rapids, Ia., writes: "Please accept my thanks for your help in securing a tinner for me. I had letters from several states which goes to show that The Artisan is read."

OUR LITTLE GIANT for Combination Heating

is known to furnace men and plumbers in every State, and is more widely used than any other combination heater made. Along with our Circular Giant and Maltese Heater, it has won its way to the top. Don't try something new, but send for our Catalog.

CHARLES SMITH COMPANY, 101 Lake St., CHICAGO

AN ACME GAS STOVE

is one that holds a unique position. Whenever and wherever it is spoken of words of praise are always used. Back of its high position in "STOVEDOM" is over a third of a century of honest efforts to make the very best Gas Stove possible. Our catalog will interest you.

Western Office & Warehouse:
1225 W. 10th St., KANSAS CITY, MO.

H. ADLER CO., Carnegie, Pa.
Manufacturers of ACME Gas Appliances

BOOMER FURNACES

Quickly Establish a Local Reputation

It is always a little hard to introduce an old Furnace in New Territory.

But the first BOOMER Furnace you sell will pave the way for an unlimited profitable furnace business.

It is likewise better to take an old, time-tried furnace like the BOOMER, and sell it in new territory, than to continue selling, or endeavoring to sell, a Furnace that does not "stand up" the way you would like to have it.

The BOOMER Furnace is one of those always-reliable, sure-to-give-satisfaction commodities that is a genuine pleasure to sell.

The BOOMER Agency, remember, has attractive inducements.

We'll gladly send you our Furnace catalogue upon request.

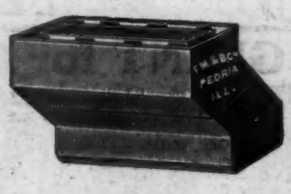
The HESS-SNYDER COMPANY
Manufacturers — MASSILLON, OHIO

Cheapest in the End

A satisfactory furnace that consumes its own smoke—a triumph and a good thing for you to handle. Its quality will advertise you.

MEYER FURNACE CO., Peoria, Ill.

We call it the **Handy Furnace Pipe** because it is so **easily fitted.** The handy pipe is made in **scientific** patterns and of the **best material.** We make Square and Round Furnace Pipe, Elbows, Asbestos Pipes and Registers.



Large Stock Constantly on Hand. Prompt Deliveries.

F. MEYER & BRO. CO., Peoria, Ill.

Mumbo Jumbo Says: "No real bright dealer should believe one-half the things he hears, when Prince-Chap Travelers come along, and sew up both his ears."

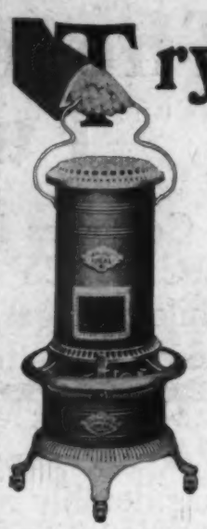
If you believe one-half of the good things printed about Aerflame Ranges you will wish to place this Interesting Specialty on your floor or in the kitchen of a near-by customer, who will report interesting results and help your Stove Trade; kind of a perpetual Cooking Exhibition so to speak.

The only Steel Range made with Protected Hot Blast Fire Box. Burns much of the Smoke and saves part of the fuel.

Shipping Points: Duluth, Sioux City, Kansas City, Salina, Kans. Western Makers, Faultless Mfg. Co., St. Charles, Ill.

The successful Stove Dealer is the successful advertiser; he has learned that the annual expense for Advertising, however moderate, must not be invested by fits and jerks, but applied steadily year in and year out; he has learned that Advertising is not chargeable to the Expense Account but rather to the permanent Investment Account. It is easy to get results from advertising Aerflame Ranges.

This matter of pushing Stoves which give a liberal profit in preference to those yielding only a narrow margin is a most important one, which calls for a nice discrimination in many ways. No merchant can afford to push a poor quality of goods and thus impose on his customers, no matter how large the margin of profit may be. On the other hand, if he is an intelligent buyer he will find little difficulty in securing a Specialty like the Aerflame in which there is a generous margin of profit, and which is equal or superior in quality to brands which are called "standard."



Try a "Barler"

in your own home.

You can then tell its good points to your customers from experience.

Quick, clean heat that you can move anywhere and save work and expense.

Write for 1906 folder and Agency offer.

A. C. Barler Mfg. Co.
104-106 Lake Street CHICAGO

Ranges That Sell

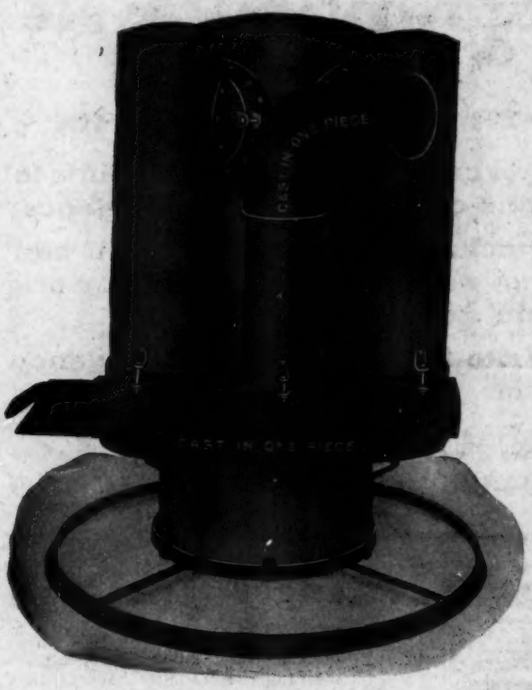
The trade papers of late have been discussing the question—Why don't steel ranges sell? Steel ranges do sell when they are made right, but the numerous cheap affairs that have been sent out in recent years have made the consumer extremely careful and it is necessary for the dealer to do more talking and furnish better evidence that the ranges he offers are good ranges.

BORN STEEL RANGES sell readily because they appeal to the common sense of the housewife. She can quickly see their strong points, and when the price is named it is easy to get her order.

Send for fall catalogue and terms.

THE BORN STEEL RANGE CO., Cleveland, Ohio.

A business man being asked by an advertising solicitor for an "ad," answered, "I did a great deal of advertising when I started in business and now I am well enough known to get along without it." The solicitor asked him if he knew who had run for the office of Vice-President the election before last. The business man did not. The solicitor then asked him if anyone had been better advertised at the time. This brought the "ad."



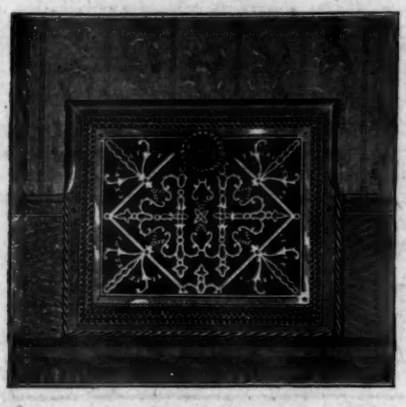
The American Furnace

Combines DURABILITY, EFFICIENCY and ECONOMY—while as regards LARGE SALES there is no better furnace on the market

THE AMERICAN FURNACE supplies, correspondingly, considerably more heat with a given amount of fuel than any other furnace.

Write for Particulars

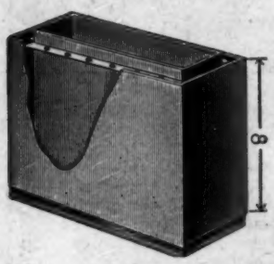
American Furnace Co.,
ST. LOUIS, MO.



THE SCHWAB SIDE WALL REGISTER

THE SCHWAB SIDE WALL REGISTER AND REGISTER BOX, NEATEST IN DESIGN, NOISELESS IN OPERATION, SUBSTANTIAL IN CONSTRUCTION, A FACTOR IN MODERN METHODS OF HEATING RESIDENCES FULLY ILLUSTRATED IN OUR REGISTER CATALOGUE. SENT FREE ON APPLICATION.

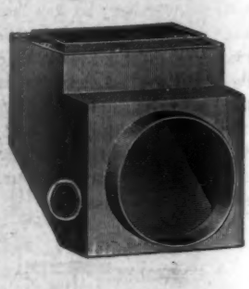
R. J. SCHWAB & SONS CO., The Furnace Men **Milwaukee, Wis.**



The Michigan Safety Furnace Pipe Company

Corner Brooklyn and Abbott Sts.
DETROIT, MICHIGAN

Manufacturers of Safety Wall Pipe, and Single Pipe and Fittings, in both tin and galvanized iron.



Send for our 1906 Catalogue. **Our new factory insures you prompt delivery.**

We belong to no combination. **Don't get our name confused with other manufacturers.**

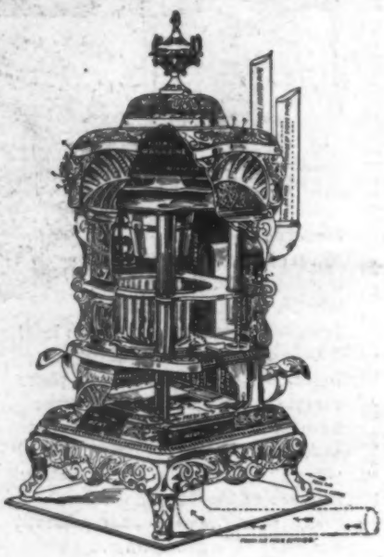
Persistent Advertising

One who watches carefully the pages of general advertising mediums is struck by two things: the persistency with which those advertisers who are recognized as successful maintain their advertising week after week, month after month, and year after year; they never seem to abate their effort, and apparently the volume of their business increases steadily. The other thing noticeable is the large number of advertisers who thrust their announcements above the surface for a little while and then sink into oblivion. They either had not merit as a basis for their claims or they did not possess the skill to steer their enterprise successfully, or else they lacked the nerve to put forth proper effort.—[*Advertising Experience.*

This is the Stove for People Who Think!

"HOWE'S" Ventilator

It is a wonderful heater and no other stove keeps the air so pure and the temperature so even.



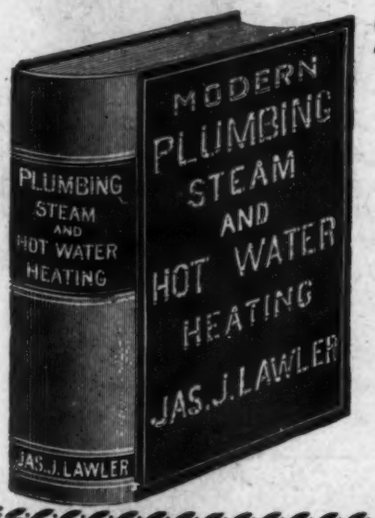
ASK US ABOUT WHAT IT HAS DONE.

Our Western Agents: COOK & VAN EVERA CO., 38 Lake St., Chicago

GALUSHA STOVE CO., Rochester, N.Y.

Modern Sanitary Plumbing.

Steam and Hot Water Heating.



An Encyclopedia of Practical Plumbing.
By JAMES J. LAWLER.
400 pages, large octavo, size 6x9 inches. Price, $5.00.

A reviewer in speaking of this book says:

"This is a book of an intensely practical character. It contains hundreds of drawings and plans and has already taken its place as a leading practical authority in its chosen field."

"Whether the mechanic is looking for information about hot water systems for greenhouses under pressure or is desirous of learning the capacity of the hydraulic ram; whether he is anxious to learn how to make the smoke and peppermint test or wants to protect his well from cesspool soakage; whether he desires a receipt for plumber's soil or is anxious for tips on the location of hot water boilers below the waterback; whether he would delve into the mysteries of exhaust steam heating or would gather points on the box waste connections; whether his work is tapping radiator mains or making repairs in occupied houses; in any of the above or a thousand other cases that will arise in the course of a year's work at plumbing or steam fitting this book will be found to contain a ready key to the technical questions at issue."

For Sale by DANIEL STERN,
69 Dearborn St., - - CHICAGO.

ROUND OAK

STANDARD OF AMERICA

Modern, up-to-date, warm air furnace heating is quite a bit different from what it was a few years ago.

It would be curious to say the least, if we people who are making thousands of furnace heating plans every year, did not discover some new ideas that help give the furnace business a better reputation and place the percentage of "successes" in favor of the "furnace man."

"75% of our homes are imperfectly heated." We quote from a good authority—and it ought to be just the other way.

We are trying by making our Round Oak furnace just as good as we can, and are advocating modern methods of installing—if it does cost more,—to make the percentage of "failures" less.

Extravagant claims are easy to make but the people who can "deliver the goods" will be the winners.

We need help from the furnace merchant who is interested in furnace heating that admits no failure.

Warmth and Comfort furnace book sent on request.

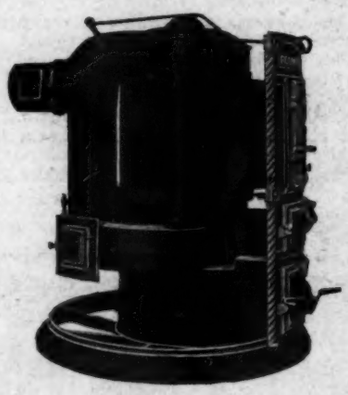
ESTATE OF

P. D. BECKWITH,

FRED E. LEE, Manager,

DOWAGIAC, MICH.

Makers of Good Goods Only.



"Hi! That's a hot one, Fritz!"
"Ja, Doe-wah-jack! Ein 'Genuine'—mit round oak on der leg."

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

TERMS OF SUBSCRIPTION IN THE UNITED STATES, THEIR POSSESSIONS AND CANADA, (Invariably in advance): ONE YEAR, POSTAGE PAID, $2.00. IN FOREIGN COUNTRIES EXCEPT CANADA, ONE YEAR, POSTAGE PAID, $4.00.

Address all Letters, communications, and remittances to

DANIEL STERN, PUBLISHER AND PROPRIETOR,

69 DEARBORN STREET, CHICAGO, ILL.

Entered at the Chicago Post Office as Second Class Matter.

THIS PAPER IS A MEMBER OF THE CHICAGO TRADE PRESS ASSOCIATION.

CHICAGO, SEPTEMBER 15, 1906.

Notice is hereby given that Walter F. Wollensak, *alias* W. F. WALLACE, is no longer in the employ of The American Artisan, and is not authorized to receive or receipt for any money for this journal.

Hard Questions for Mail Order Houses.

IN THE excess of their prosperity and success in gathering in the hard-earned dollars of the farmers and other out-of-town consumers the mail order concerns are apt to ignore certain points of equity which naturally arise in the minds of individuals who are public-spirited enough to take into their calculations the common interests of the section or community in which they live. It is not reasonable to expect that the managers of these mammoth concerns should waste any time or money in sentiment or that they should devote the smallest fraction of their precious time to looking after the personal interests or affairs of the toilers afield. They are too busy over their plans for the extension of their vast establishments and their schemes for gathering in the coin to pay for such extensions. They can't see any reason for concerning themselves over the conditions which surround their customers; it is the money they are after. What matters it to them whether schools or churches are built or not. The only books that to their way of thinking are worthy of a place on the farmer's table are their catalogues. That is the kind of literature they think should be in the hands of the people, to the exclusion of everything else. Even the "young idea" should be educated up to a taste for the splendid bargains exploited in their intensely interesting works, so that when they grow up they will know how and where to buy. From the ground up the people, they think, should learn to lay hold upon their particular brand of doctrine and apply themselves diligently and unceasingly to the business of building up their mammoth fortunes.

When the out-of-town buyer takes a mail-order catalogue in hand and proceeds to the selection of something that he contemplates purchasing he becomes so enwrapt with the allurements of the volume that he neglects to take into consideration some questions of very grave import. He should turn over in his mind, as he turns over the leaves of the catalogue the various benefits which he and the community in which he lives *do not* receive through his patronage of mail order houses. When he is sending in his order he should send also a few inquiries to the conductors of the catalogue system. He should get them to tell him how much they are willing to contribute to the grading and improvement of the roadways in his section or town. He might induce them to tell him also what they thought would be a fair amount to contribute to the establishment and maintenance of a fire company and outfit for the protection of their homes and property; what they would be willing to contribute to the erection of a much-needed town hall; how much of their influence they would throw into the cause of the town in its efforts to obtain additional railway and shipping facilities.

When sending along his cash with order the patron might elicit some information from the mail order magnates concerning their contributions to charitable objects, and, perchance, he might be able to induce them to help out in any such project afoot in his own community. They would be glad, *of course*, to contribute from their vast hoards just a mite of the big profits realized through the patronage of out-of-town customers. And, while upon this subject, it might be well to forestall any possible stroke of misfortune by establishing a line of credit with the catalogue house, to which he has so often taken his cash trade. It would be quite a handy arrangement to be privileged, when cash runs low, to send along his order and say (as he so often has said to his home dealer), "Charge it, please, I will send in the cash in a few days." There could hardly be any objection to a request of this kind when strongly backed by the proper credentials.

Let the patron of catalogue concerns try this plan. Put the above questions to them and see what they will say. The replies, very likely, will be thoroughly satisfactory in one respect—that of removing all doubt as to the attitude of mail order houses toward solicitors of favor.

And why, let us ask, should not the catalogue concerns be expected to contribute to the public good of towns and communities upon which they draw for support? Why should they be absolved while the retail dealer, into whose trade territory they are making constant and damaging inroads, is looked to for a contribution every time occasion arises for a "touch" upon the people. The local dealer is, in most instances, a property-owner and taxpayer and does his part toward the advancement of public interests, yet he is overlooked by those in his neighborhood who have become converts to the mail order system when they want anything in his line. Instead of aiding him, and through him their town, by giving him a chance at their money they send it away out of the neighborhood, and it is just so much taken out of the sustenance of their home body.

The greed for gain is so rife in the human family

that it often blinds to their own interests those who are thus afflicted. It is hard to withstand the alluring attractions of the bargain counter. Some people will risk their very necks in a butt-in bargain rush.

It is not to be wondered at, then, that the catalogue system has its followers. The wonder is, though, that so many people in country communities seem oblivious to the fact that in saving (?) a dollar through a mail order purchase they are putting a nail in the coffin of their home prosperity.

Effect of the Pure Food Law on the Tin Industry.

WORD comes to us from over the water that alarm was expressed at a recent meeting of Welsh tin-plate manufacturers over the effect of the canned-meat troubles upon the British tin-plate trade. Tin plate is imported into the United States for use on tin goods exported, the plate receiving a drawback of ninety-nine per cent of the duty when so used for export purposes. Consequently, if the exports of canned goods decline the British tin-plate manufacturers will suffer.

That the exports will decline is a foregone conclusion. We have it on reliable authority that English dealers in our canned goods have, since the packing-house investigations, been tampering with the labels on American cans. This goes to show what is bound to befall our export trade in this line. An embargo has been placed upon our canned goods that will not soon be lifted. It will take something more than the published assurance of the packers that everything has been made right in the handling and preparation of their goods. The stamp of approval of President Roosefelt himself (which some addle-pated "reformer" has advised) would not suffice to disabuse the minds of the English people of the distrust engendered by the revelations of our packing-house exposures. It will take a long time to wipe out the stain upon our brands of food products and restore them to their former high standing with British consumers, if ever it can be done.

At a glance we can see what the effect of this withdrawal of trade will be upon our can-making industry, when not only England, but all the nations of Europe refuse to become reconciled to the use of American canned goods. As yet there is no apparent falling-off in the demand for tin, but as the can-making industry is so large a part of the tin-consuming power of the United States, it is highly probable that at a not far distant day the effect upon tin prices will be distinctly felt.

In the absence of authentic figures, which we expect will soon be forthcoming, we cannot give anything like an accurate estimate of the loss which will be sustained in this branch of American industry. It will not be extravagant, however, to place the loss at one-third of the output of the factories engaged in this work. This loss may be compensated for by an increased demand in other lines of tin consumption, but from a cursory glance a-field it does not appear from what direction such increase is to come.

To what extent the packing-house exposures have affected the consumption of tin at home is not at this time accurately ascertainable, but from information afloat it has been damaging. A compilation of statistics on this point would be of interest. Retailers generally still report losses in trade on canned meats, and the recovery of this trade will at best be very gradual.

And this is before the pure food law has become operative. A foreshadowing, we may say, of what is to come. True, the state food commissions have been at work—and very vigorously of late—which may to some extent account for the spread of distrust among consumers of canned goods. An era of regeneration, it appears, has set in, and while much in the interests of national honor and health is sure to be accomplished, the financial cost will be enormous.

This is no warning cry—no sounding of alarms. There is nothing even remotely suggestive of financial distress in the national situation. Business conditions in general are so well balanced throughout that we would have far to seek to find the faintest cause for apprehension of any ebb in the tide of our national prosperity.

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

BACK in—well, some years back—we were up against the wood-sawing problem good and hard; and it was to whine, with us, when we got the straight tip from the parental powers that the woodbox—that bane of our kidhood days—was yawning for its diurnal repast of sawed and split hardwood. The maw of the able-bodied stove to which that woodbox served as tender was insatiable and all-devouring. To get a few moments the start of it was an oft-proven physical impossibility.

Out into the nipping air of a wintry morning ere we "stirred a step to school," we were persuaded that it was our main business in life to hike and mingle with the inexhaustible and everlasting woodpile close beside the kitchen door, where there was no escape from the parental ear. Talk about "tough propositions," that wood was the uttermost limit. Knots absolutely dynamite proof in every stick. Splinters as plentiful and perpendicular as the quills upon the ever-fretful porcupine, and, well, it was the typical, old-time woodpile—appalling, awful!

After an hour's diligent dalliance with its varied charms it was no "shining, morning face" that we packed to the little red school house, you may well believe, and no sweet thoughts aided us in our *lovely* lessons as we strove to straighten out the kinks in our backbone the while we labored to put through the same strenuous stunt on the tangled roots of mathematics.

But time has changed all that. We no longer have to saw the wood. All we have to do now, each evening just before dousing the glim and donning our nightie, is to man a couple of hods and meander to and fro a few times between the kitchen and the coal-shed and dump a twenty-four hours' supply of the dusky dingbats into the bin beside our palatial modern range.

The subject is so thrilling and enthusing it moves

us even to metrical recourse for commensurate expression:

In years long gone it was a stove
That cooked our grub at home,
A hungry little cordwood trap
That kept us sawing—*some;*
But things have changed, and now we've got
A range that's big and bright,
And now instead of sawing wood
We shovel anthracite.

* * *

LACK of discretion has militated against the business success of many an otherwise bright and go-ahead young man. Something more than push and willingness is needed to catch and hold trade or put through a deal of any kind. If a person goes into a hardware store and calls for a food chopper it does not display good business tact on the part of the clerk to offer him a sausage stuffer, if the desired article is not in stock. Nor is it wholly advisable as a diplomatic move in an exigency of this kind to descant upon the merits of a popular make of can-opener when not a thing on earth will fill the bill save a cork-puller. Illustrative of the force of this argument is the yarnlet recently related by W. B. Wilson, secretary of the United Mine Workers, in a talk about business success at a meeting in Scranton, Pa.

"Success is largely a matter of intelligence," said he. "We are all industrious enough to succeed. It is lack of discretion rather than lack of push that keeps us back.

"So many men work stupidly, like the boy in the drug store.

"There was a boy clerking in a drug store to whom the druggist said:

"'You sweep and clean well, but you're not as good a salesman as you should be. To be a good salesman you must push things a bit. Call each patron's attention to some article he needs. Thus you may often effect an extra sale.'

"'All right, sir,' said the boy.

"And that afternoon he said to an elderly woman who had come in after a stamp:

"'Anything else, ma'am? Hair dye, cosmetic, wrinkle remover, face powder, mole destroyer, skin rejuvenator, flabby——'

"But with an exclamation of annoyance the woman hastened out before the alert boy was through his catalogue of the articles he thought she needed."

* * *

I AM sure that there is not a married man but feels that as a handy man about the house he is without a peer. Every hardware dealer can call to mind certain friends of theirs who started out to save money by doing the work themselves, in preference to calling in a professional. A friend of mine was constantly expatiating upon his ability to do any old job and was always figuring up the amount of money he saved by doing the work himself in preference to calling in a carpenter or a locksmith as the case might be. But after an experience he had the other night, I think it would be a dangerous proposition to mention the subject to him. He is now willing to admit that there are a few things a professional can do better than an amateur. It happened last Monday night. The back fence was in need of kalsomine, and after purchasing a can of paint for $1.00 and a brush for 50 cents he started in to do the job. It was then about 7 o'clock, and he remarked to his better half that he would have the twenty-five feet of boarding properly dyed in "about three shakes of a sheep's tail." The sun went down and the supper hour passed, but he went on painting. It was too early for the moon to rise, and as it seemed necessary to complete the job, his wife offered to hold a lamp while he went on with the job. The neighbors, attracted by the unusual spectacle, went over to investigate, thinking perhaps burglars were at work. Most of them remained to criticise, extol or offer suggestions. He went on painting, however. At midnight the job was finished, and he took an inventory. He found he had ruined one $25 suit of clothes and one $10 dress belonging to his wife, not to mention the damage done to his temper. A painter who viewed the job the following day said it would have cost about $2 to do the job right.

* * *

AS TO the effect that the railway rate bill will have upon shippers the general impression, as observed by those in position to know, is that there is nothing to be feared if the intent and purpose of the measure be properly carried out, wholly apart from any influence of a political nature. The railroad people themselves, we are assured, are favorably inclined towards the law and entertain the belief that if fairly administered it will correct abuses and result in good to themselves as well as to the public.

* * *

IT IS not always the "smarty Aleck" that gets away with the goods just as he intends. A brilliant youth went into a hardware store and inquired of the none-too affable proprietor about nails, asking if he had all kinds on sale. Being assured in the affirmative the youth, preparing for a simultaneous get-away, said: "Gimme a nickel's worth of toe nails." He got 'em—right where they would do the most good.

* * *

SONG OF THE SHEARS.

With a click and a zip
I slash and I snip
As I plunge through the editor's choicest exchange;
There is joy in the work
And I never can shirk
When I'm wanted to gather things newsy and strange.
With a clippity-clip
And a snippity-snip
I earnestly, eagerly, endlessly rip.

In a vigorous nip
I feel the firm grip
Of the editor's fingers when comes to his eye
Something new in his line
Which he thinks very fine
And worthy a place in his paper so fly.
With a clippity-clip
And a snippity-snip
I rapidly, ruthlessly, recklessly rip.

News Siftings

Houston, Texas, has a new concern in the Texas Screen Company, just organized with a capital stock of $10,000.

The three leading manufacturers of sheet zinc are offering their output on the basis of $7.75 per 100 lbs., f. o. b. smelter, subject to the usual discount of 8 per cent. The demand continues good and the stocks are larger.

In a card to the public the H. W. Johns-Manville Company of 100 William street, New York, correct a newspaper report concerning the fire at their Brooklyn, N. Y., factory on Aug. 30. The origin of the fire was incorrectly stated and the damage greatly exaggerated. The fire did not interfere in the slightest with their facilities for handling orders and the company is fully prepared to attend all new as well as old business.

We are in receipt of the following notice under date of August 31, 1906:

To Our Customers:

You are hereby notified that Mr. Charles A. Rusco, who has for five years occupied the position of our Western sales manager, has this day voluntarily retired from our service and severed all business connection with us.

Hereafter all orders, letters and communications should be sent, and all accounts should be paid, directly to us at No. 19 West Lake street, Chicago.

Mr. Edward P. Mott, who was our Western manager from 1885 to 1901, will again resume charge of our business.

We solicit and will strive to deserve a continued and an increased patronage from you.

In the near future we will add to our extensive line several new Novelty stoves and ranges, specially designed to boom the sales and swell the profits of the merchants who handle them.

Yours for business,

ABRAM COX STOVE COMPANY, Chicago.

RUBY STOVE AND RANGES.

One of the season's neatest catalogues is issued by the South Erie Iron Works, of Nos. 1917 to 1925 Peach street, Erie, Pa. They are manufacturers of a line of exceptionally fine stoves and ranges, among them being the Colonial Ruby, the Germania, the Ideal Ruby, the B. Ruby and the Famous Ruby. Their line of cook stoves is comprised of the C. Ruby, the Melrose, the Family, the Home Pride Ruby, the Oak Ruby, the Oriental Ruby, and the Star Ruby, all of which are constructed upon the highest principles of modern stove making in design and finish. These stoves take rank with the best on the market. This catalogue and price list is worthy of mention. It has been gotten up in the highest accomplishment of the printers' art, being well illustrated and arranged, and printed upon paper of the finest quality. The terms offered by the South Erie Company are fully up to the expectations or the demands of the trade. The Company spares no pains in its efforts to put out attractive goods, its workmanship is of the best and the material of superior quality. Its goods are sure to make friends among dealers. This catalogue will be cheerfully sent upon request and the mention of THE AMERICAN ARTISAN.

QUALITY HEATER.

The Quality Oak, a heater manufactured by the Quality Stove and Range Company of Belleville, Illinois, is a stove that is compact in appearance, well constructed and one that will give the best of satisfaction where a heater of its dimensions is required. It is gotten up in good style, simple in construction and easily operated.

The Quality Hot Blast is another heater manufactured by this company on nearly the same lines as the Quality Oak, but with some slight difference in ornamentation. These goods are fully up to the mark of excellence required by the demands of particular consumers, and will be found by the dealer who handles them a very satisfactory and salable line. Folder and further particulars will be cheerfully sent upon application. Mention of THE AMERICAN ARTISAN is requested.

JEWEL STEEL RANGE.

A range of very high class and superior workmanship is the Jewel, manufactured by George M. Clark & Company, Chicago. Into this range the manufacturers have put material of unexcelled quality and the best efforts of the range designer. It is constructed upon the most approved lines and has an appearance of solidity and reliability. In the manufacture of this range close attention has been paid to the features of most importance to the user. All the practical features found in the best ranges and a few more of their own devising have been combined by the manufacturers in the Jewel Steel Range. In answer to the demand for malleable iron tops the manufacturers have added this feature. With these tops and practically all the rest of the range of steel the chance for breakage has been reduced to a minimum. There are more practical talking and selling points in the Jewel than can be described in a few words. Although it requires but very little talk to sell them, other points of merit can be made apparent at a glance. Built upon solid merit, the sale of one Jewel range begets the sale of another, and wherever used it always becomes popular. For years George M. Clark & Company have been leaders in manufacturing gas and gasoline stoves, and they are using the same methods in the manufacture of Jewel steel ranges. Where the heat is most intense in the Jewel, thick asbestos board is used within the heavy steel lining. Square polished steel corner posts into which the sides are locked with rivets and bolts make it of the strongest possible construction, easy to take apart and making the joints tight without the use of putty or cement. Other features of this range are in keeping with those described, and altogether the Jewel may be said to be one of the most satisfactory ranges before the public. A full description of the construction and parts of this range will be found in a neat catalogue that will

be furnished on application. When writing please mention THE AMERICAN ARTISAN.

COMSTOCK-CASTLE STOVES AND RANGES.

In the elegant line of goods manufactured by the Comstock-Castle Stove Company of Quincy, Illinois, will be found a near approach to perfection in the art of stove and range building. Their Economy steel range is a thoroughly well made and handsomely finished article. The body is made of Wellsville Polished Blue steel and the castings, which are very heavy, are of Bessemer pig iron. The model of this range is perfect in every respect, having been thoroughly tested and approved by dealers who have for many years handled steel ranges in large quantities. In the construction of this range nothing has been spared that will add to its merit, either in appearance or smoothness of operation. Every part is perfectly made and nothing is lacking to bring it fully up to the requirements of modern demands. Their leader in the line of ranges is styled the King Economy; next in the scale of excellence is their Clipper Economy; then follow their Derby Economy and Star Economy, both of which are fully up to the very highest standard. Among their stoves are their Cozy Economy Steel Cook, which in appearance is truly a good-looker, besides having all the points of a well made and serviceable article. It is made with and without reservoirs and built for the use of either hard or soft coal. The Comstock-Castle Company manufacture also the Meteor Economy steel cook stove, a solid looking, well nickeled and artistically modeled stove, which rests flat upon the zinc, having no legs, giving it the appearance of a range. Among the ranges and stoves described will be found the standard of the Comstock-Castle goods. Their list includes many other styles of stoves and ranges, heating stoves of all descriptions, laundry stoves, etc., all being of uniformly good quality and high-class workmanship. A glance through the catalogue issued by this company will satisfy the most exacting taste. Dealers keeping up with the demand of high-class trade will find in the Economy goods something that will prove exceptionally satisfactory. Catalogue and full particulars will be furnished on application. When writing, please mention THE AMERICAN ARTISAN.

BUTLER BROTHERS' CATALOGUE.

There has just come to hand one of Butler Brothers' new fall catalogues, number 586, which bears upon the face the title "Our Drummer." On this page are given a number of suggestions and points of information which will be found of interest to the reader. Under the heading "We ask an even chance," Butler Brothers say, "we think the time has come when with propriety we may cease to ask as a favor and claim as a right that we be given an even chance." They say also that in twenty-nine years, starting from nothing, with no traveling men to help them, they have grown from last to first place among American jobbing houses. This they think certainly gives them a claim on the attention of business men.

Among announcements made on this page is the opening of a house in Minneapolis, within the next few months, also the opening of sample houses in St. Paul, Dallas and Baltimore. They announce also the establishment of a chain of houses which will "cover the country" whose united wants will make of them an increasingly powerful factor in the field of buying. In the opening of their sample houses their aim is to come in still closer touch with their customers and they claim that their cost of selling continues little more than one-third that of selling through road men. Resident representatives in Europe and Japan enable this concern to import from these countries goods which are sold through the medium of inexpensive catalogues, enabling them to job such wares at prices that are interesting to informed buyers. Huge open stocks of general merchandise, as strong and powerful in price as better grades enable Butler Brothers to take care of trade in lots to suit convenience of dealers and at any time during the season.

This catalogue enables the buyer to conveniently and with satisfaction purchase anything in its lists at prices which are plainly stated. Every provision has been made to save the visiting merchant's time, all samples being price-marked in plain figures. And by placing before him goods at lower average prices and putting into his store quick-selling, profit-paying merchandise in unexcelled variety enables him to increase his business. This should insure for this catalogue the same careful attention that is given the representatives of any other big, strong house and give what the Butler Brothers claim is their due—"an even chance."

In the very extensive and varied assortment of goods offered to dealers through the medium of this catalogue, is afforded an opportunity for the selection of anything that might be desired in any line of trade and gives to the retailer the benefit of first-class goods at lowest prices and enables him to supply his needs with the same facility that would be afforded him by direct contact with the jobber. It also enables the out-of-town dealer to replenish his stock without necessitating a personal visit to the sources of supply.

In each and every department represented in this catalogue will be found as full a line of the respective goods as is carried by any large individual concern. It will be found upon careful investigation that there are advantages to be gained in purchasing through the catalogue which cannot be obtained through personal buying. A fair trial is all that is asked for this system of purchasing and it is entirely within reason to predict that when once rightly understood, the many advantages of this system will become apparent.

Butler Brothers, who are located at Randolph Bridge, Chicago, are exclusive jobbers of general merchandise, wholesale only, and this catalogue is for dealers alone. No matter what their line may be all orders can be filled, on short notice from these mammoth stocks. Dealers would do well to send at once for the new catalogue, and when so doing are requested to kindly mention THE AMERICAN ARTISAN.

The export of hematite iron from Almeria, Spain, to the United States in 1905 amounted to 130,429 tons, against 18,887 tons in 1904.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 40 to 45 inclusive.

The Lundy Hardware Company is a new Rockford, Illinois, concern, with a capital of $2,500.

The Enterprise Hardware Company is a new concern in Bennettsville, Tennessee, with a capital stock of $10,000. E. M. Rowe is president.

Spratt, Corcoran & Foley Company is a new New York hardware and stove concern, with a capital of $7,500. The members are J. W. Corcoran, J. E. Foley and C. B. McCormick.

Among new firms recently incorporated in New York city is that of the Electric Diamond Machine Company, which will manufacture hardware, grinding machines and carboridum. It has been capitalized for $20,000.

The Bonebrake-Schaffer Hardware Company is a new El Reno, Texas, concern, which has been incorporated with a capital stock of $10,000. The members are J. E. Bonebrake and S. G. Schaffer of El Reno and H. E. Bonebrake of Weatherford.

Announcement has been made of the incorporation of the Griffeth Hardware and Plumbing Company of Idaho Falls, Idaho, under the name of the Idaho Hardware Company, to do jobbing in connection with their retail business. The concern consists of G. W. Griffeth and R. C. Snyder. They invite prices and catalogues in their lines, which include tin, plumbing, electrical work, fishing tackle, washing machines and steam, hot water and hot air heating apparatus.

THE CHICAGO HOUSE WRECKING COMPANY

The Chicago House Wrecking Company, West 35th and Iron Streets, Chicago, has just issued catalogue No. 145, a compact and comprehensive book of generous size containing full lists of articles to be found on sale in their store rooms. Among them is included a full line of such articles as go to make up a hardware stock, plumbing goods of every description, rubber belting, heating apparatus, painters' stock, etc. The company were the purchasers of the world's fairs at Chicago and St. Louis and the expositions of Buffalo and Omaha. The catalogue would be sure to prove a valuable acquisition to dealers. Kindly mention THE AMERICAN ARTISAN.

COLUMBUS BOLT WORKS.

In a catalogue issued by the Columbus Bolt Works, of Columbus, Ohio, is given an endless variety of illustrations and descriptions relating to their exceptionally large list of goods. In this list will be found everything that goes to make up a complete assortment of bolts, rivets, nuts, washers, carriage forgings, etc., all of which are of the very best make and material. Other articles in their list are stretcher rods, guy rods, welded eye bolts, pole steps, cross-arm braces and structural supplies for telegraph and telephone lines. Among their carriage hardware will be found all the various parts which go to make up the hardware equipments of the vehicle. Fifth wheels of all kinds are a notable feature of their list, embracing the Cincinnati, Derby, Brewster and full circle patterns. All dealers wishing to add to their stock anything in these lines will not find it hard to select from this catalogue just what they want. Catalogue and price list will be sent on application. Please mention THE AMERICAN ARTISAN.

KEES CORN HUSKER.

Now that the corn husking season is at hand, the subject of huskers comes uppermost. There is a wide variety of ideas as to what form of husker is the handiest and does the best work. This is a peculiarity that has been noted among corn huskers. To satisfy all demands the F. D. Kees Manufacturing Company of Beatrice, Nebraska, are making an almost endless variety of huskers. In their line are many novelties, among which will be found everything that the most exacting husker could ask for. Every possible range of adjustment consistent with simplicity and strength will be found in the wide variety to be found in the Kees goods. A novelty which they are putting on the market is capable of 12 adjustments, 8 for single hook and 4 for double. In this article all the requirements of the most exacting operator will be found. In this husker the dealer will find something that is sure to attract attention and find ready sale. Descriptive folder and prices sent on application. Kindly mention THE AMERICAN ARTISAN.

MAJESTIC ROTARY WASHING MACHINE.

The Majestic rotary washing machine, manufactured by The Richmond Cedar Works, Richmond, Va., illustrated herewith, is one of the lightest running machines on the market. The top is made of seasoned

Majestic Rotary Washing Machine.

Virginia white cedar and has a flat hoop at the top and electric welded wire hoops at the middle and bottom, sunk in grooves. This washer is fully corrugated on the insides only and the steam cannot escape through the top of the machine. There is nothing on the inside to catch the clothes and the most delicate fabric can be washed in the Majestic without injury. All castings are aluminum coated; it has ball bearings and a well balanced flywheel. This is a very handsome machine, of which the company will be glad to furnish

full particulars to any one mentioning THE AMERICAN ARTISAN.

"J-M" ASBESTOS PACKINGS.

To consumers of boiler and pipe packing a strong argument in favor of the "J-M" Asbestos Packings is being presented in a neat folder just issued by the H. W. Johns-Manville Company of 100 Williams street, New York. They manufacture packing for every purpose, including sheet, ring, spiral and rope packings and gaskets. They solicit a trial order for packing for the most troublesome places that are brought to the attention of engineers. To get the most out of a plant for the least money it is necessary to have suitable packing. Many of the best plants throughout the country are handicapped by using inferior packings. Poor packing is the poorest kind of economy. For a superior article of this kind dealers would do well to inquire into the merits of the "J-M" Asbestos Packings," full particulars of which are given in a new folder issued by the manufacturers, and which will be immediately sent on application.

STEVENS TRADE ADVERTISING CONTEST.

The J. Stevens Arms & Tool Company, of Chicopee Falls, Massachusetts, announce in a prettily gotten-up pamphlet an advertising contest, beginning August 15th and closing November 15th. One thousand dollars in prizes for good advertisements will be distributed by the company. This contest is instituted to locally stimulate interest in advertising their popular and meritorious rifles, shotguns and pistols. There are one hundred prizes ranging from twenty-five dollars down to two dollars and fifty cents, which will be delivered free of all cost to successful contestants. This liberal apportionment of one hundred awards gives every one an opportunity to obtain the Stevens prize. There are no restrictions nor limitations governing the contest, and the competitor is to be guided only by the simple and elastic conditions of the Stevens Trade Advertising Contest.

The compositors of the paper publishing the advertisements which win the prizes, will receive a Stevens Favorite No. 17 rifle as an additional prize. Advertisements will be judged, first, upon strength and forcefulness of copy, giving the most convincing and original reasons why Stevens Arms should appeal to both consumer and dealer, and, second, for general effectiveness of typographical construction or eye-catching qualities. Conditions governing this competition are given in full in this pamphlet.

An excellent opportunity has been afforded to test the ability of many persons possessed of the desire to engage in advertising writing, and it may be the means of developing writers of unusual ability among business men and their employes. It will certainly serve to promote sales of dealers who carry the Stevens goods, and will attract wide attention in business and advertising circles. All those wishing a copy of this pamphlet and any information concerning the Stevens Arms will be gladly furnished upon writing for the same. When doing so kindly mention THE AMERICAN ARTISAN.

ADMIRABLE ADVERTISING.

No better means has been devised of impressing upon the minds of the people the good qualities of an article of merchandise than that of placing upon it the name of the manufacturer or producer. The name becomes the mark of identity, and when the article has won, through merit, a reputation for quality and genuineness the name, at a glance, tells the story. As an example illustrative of the truth of this and a specimen of clever and catchy advertising we reproduce herewith an advertisement that speaks for itself.

Think of the name of a lock.
Yale, of course.
But can you think of the name of another?
That's the point. You do not know of any others.
But there are others—others that *look* like the Yale; that are based on the original Yale idea.
But the similarity goes no farther. If you want the lock you know, you must know this—
The name of the lock is the name of the makers—Yale & Towne. This name appears on every genuine Yale Lock or its key. It means more on a lock than any other name, because it identifies a lock that has been carried farther in the matter of mechanism, material and improvements than any of its imitations.
The Yale name is known to you because of the superior qualities of the Yale Lock. If you want these qualities you must get them in the Yale.
You cannot get them in some other lock that is striving to imitate the Yale virtues.
Your dealer can supply you.
THE YALE & TOWNE MFG. CO.
The only makers of genuine Yale Locks.

DAVIS AND COOK LEVEL.

The Aluminum Plumb and Level, manufactured by Davis & Cook, of 23 High street, Watertown, N. Y., is a tool that will be found most convenient and satisfactory to all who have use for such an article. One needs but to become acquainted with its merits to fully appreciate its handiness and serviceableness. Its uses are manifold. Instead of having the bulb imbedded in the top of the tool, the Davis & Cook Level has two bulbs—one for plumbing, one for leveling—in the center of the tool, where both may be instantly read, above or below operator—to the right or left—at any angle at a distance of 10 or 15 feet away. It is a time-saving and a most convenient tool, and one that finds ready sale among carpenters, masons, bricklayers and others. Dealers will find it a valuable addition to their stock. Full particulars will be found in catalogue which will be gladly sent by the manufacturers to all requesting it. Don't forget to give mention in your letter to THE AMERICAN ARTISAN.

Aluminum Plumb and Level.

WELDLESS CHAINS.

The Bridgeport Chain Company of Bridgeport, Connecticut, have among their specialties various novelties which will attract the attention of dealers in these goods. They are the original makers of the wire chain having a lock joint and their "Triumph" pattern is an article of unsurpassed strength and general utility. It is twice as strong as welded steel, three times as strong as steel wire rope, and six times as strong as the best hemp rope, and will be found equal to any strain which would ordinarily be placed upon it, in the use for which it is intended. This chain will not kink and is perfectly smooth, and every length is made accurate for sprocket use. Their "Brown" chain is an extra strong and well finished article, being made from very tough Bessemer steel wire. It is made in various sizes and is uniform in length. The Bridgeport Chain Company also manufacture tie-out chains, halter chains, kennel chains, dog leads, trace chains and everything in the chain line that can be thought of. Their goods are of the best quality and reasonable in price. Retailers would do well to give this list their attention. The goods are, beyond question, strictly first-class in every particular. Catalogue and price list furnished on application. When writing kindly mention THE AMERICAN ARTISAN.

GREAT SHOOTING WITH PETERS CARTRIDGES

At Wilmington, N. C., Aug. 22d and 23d, first amateur average was won by Mr. Geo. L. Lyon, his score being about 93 per cent. Second amateur average was won by Mr. Wm. Simms of Wilson, N. C., 90 per cent, both using Peters' factory loaded shells. Mr. Lyon has been shooting in excellent form this year, and his winning at the Wilmington shoot was a very popular one. Mr. Lyon also won second general average for the two days. Second professional average was won by Mr. E. H. Storr; third professional average by Mr. A. M. Hatcher, both using Peters shells.

At the tournament given at Carolina Beach, N. C., Aug. 24th, Mr. E. H. Storr won high average, breaking 122 out of 125, and shooting Peters factory loaded shells.

At Peoria, Ill., Aug. 26th, Messrs. H. Conner and J. C. Ramsey tied for second amateur average, both using Peters factory loaded shells.

At Lewisburg, Ohio, Aug. 24th, Mr. L. H. Reid won high average, losing only six out of 200, an average of 97 per cent. Mr. Reid shot Peters Ideal factory loaded shells.

Mr. L. I. Wade of Dallas, Tex., made the second high score in the big handicap race at Denver, Aug. 23d, losing only 4 out of 100, and shooting Peters factory loaded shells. Messrs. J. S. Day and H. W. Kahler, both representing the Peters Cartridge Co., scored 93 in this race, and Mr. C. D. Linderman broke 96, all using Peters shells.

At Mound City, Ill., tournament, Aug. 18th, 1906, H. W. Cadwallader was high professional at 96 per cent, and M. E. Shanks of Centralia, Ill., high amateur, both using Peters factory loaded shells.

H. N. Hall, Georgia representative of the Peters Cartridge Co., made high score at the Valdosta, Ga., tournament, Aug. 15th and 16th, losing 29 out of 400. Mr. Hall and a great many of the Southern Georgia shooters present used Peters factory loaded shells.

At the Denver tournament, Aug. 21st, 22d and 23d, Mr. J. S. Day, Western Texas representative of the Peters Cartridge Co., shot a very steady, consistent pace, averaging 93¾ per cent on the entire shoot, including practice days. Mr. S. A. Huntley tied for high amateur average on the first day, losing only 5 targets out of 200. Mr. Huntley won third amateur average for the entire tournament, finishing with 96 per cent.

At Clarenden, Tex., Aug. 13th, Mr. Dick Allen won high general average, using Peters factory loaded shells.

At Danville, Ill., Aug. 23d and 24th, high professional average was won by Mr. C. O. LeCompte, and second professional average by Mr. H. W. Cadwallader, both using Peters factory loaded shells.

RETAIL HARDWARE DOINGS.

NEW FIRMS AND INCORPORATIONS.

Houston, Texas—Texas Screen Company; capital, $5,000; employes, 5; pay roll, $2,500; output, $10,000.

Bennettsville, Tennessee—Enterprise Hardware Company, E. M. Rowe, president; capital stock, $10,000.

Houston, Texas—Houston and Liggett Pin and Bracket

Manufacturing Company; capital, $25,000; employes, 43; pay roll, $18,000; output, $650,000.

Galesburg, Illinois—W. M. Ferris Company, general merchandise and hardware; capital, $2,500.

Hampden, North Dakota—Edwin Anderson and Henry Mayer have purchased a hardware

El Reno, Texas—The Bonebrake Schaffer Hardware Company; capital stock, $10,000. J. E. Bonebrake and T. G. Schaffer of El Reno; H. E. Bonebrake, Weatherford.

Glenville, Ohio—M. E. Clay opened a hardware store at 8802 Superior avenue, N. E.

New York, New York—Spratt, Corcoran & Foley Company; hardware, stoves, etc.; capital, $7,500. J. W. Corcoran, J. E. Foley, C. B. McCormick.

Cedar Rapids, Iowa—J. B. Jenita has engaged in the hardware business.

Caney, Kansas—The Todd Hardware & Supply Company has been incorporated with a capital stock of $25,000.

Colville, Washington—The Hunt Hardware Company has been incorporated with a capital stock of $12,000, by Chas. A. Hunt and others.

Cottage Grove, Oregon—Miller & Corbett have opened a new hardware store.

New York, New York—Richfield Manufacturing Company to manufacture tin and tinware, etc.; capital, $5,000.

New York, New York—Electric Diamond Machine Company; to manufacture carbonindum grinding machines and hardware; capital, $20,000.

Rockford, Illinois—Lundy Hardware Company; capital, $2,500.

New Rockford, North Dakota—E. R. Adams is going into the hardware business.

BUSINESS CHANGES.

Wayland, Iowa—Charles Gorham has sold his stock of hardware to A. C. Ralston of Washington county.

Bloomdale, Ohio—T. J. Campbell & Sons have sold their hardware store to Ira A. Swartz of Jeanette, Pa.

LaPorte, Iowa—W. H. Graham & Son have sold their hardware store to M. O. Van Brocklin.

Union City, Tennessee—The Nailing-Keiser Hardware Company, who bought the hardware store of H. Dietzel, took charge of same on September 4.

Rockville, Connecticut—The Snow hardware store on Union street has been sold by Otis Snow to his son, Fred J. Snow, who will conduct it under the name of the Snow Hardware Company.

Cincinnati, Ohio—The Rheude-Aufdenkampe Company has changed its name to the Aufdenkampe Hardware Company.

Monrovia, California—The Dunn-Miller Hardware Company has purchased the interests of Allen H. Nye, on Myrtle avenue. The new firm is composed of John P. Dunn of Duratr and D. H. Miller, late of San Francisco.

Hampton, Iowa—Hansen & Son have sold their hardware interest to N. R. Christensen.

Winona, Minnesota—C. A. Bergh has leased the H. Behrens & Co. hardware store.

Marion, Iowa—Gitchell & Barnes have succeeded William & Bunting.

Scranton, Pennsylvania—The name of the Foote & Lansing Co. has been changed to the Lansing Hardware Company.

Castana, Iowa—John Hart has purchased the stock of hardware, etc., of W. H. Kennedy.

Dickens, Iowa—Wm. McCurdy has sold his hardware store to Mr. Kronk.

Scandia, Kansas—J. A. Cullers has sold a half interest in his hardware store to E. C. Goodwin.

Phillipsburg, Kansas—N. R. Miller is adding hardware to his stock of general merchandise.

Adams, Nebraska—Johnson & Boothe have purchased the hardware store of E. Van Engen.

Prague, Oklahoma—R. M. Crowe has sold his hardware store to Walker Brothers.

Linwood, Kansas—J. F. Ward has purchased the hardware store of A. T. Christine.

Vancouver, British Columbia—J. A. Gray has sold his hardware store to O. M. Fox.

Carson, Iowa—G. W. Berkheimer has been succeeded in the hardware business by Berkheimer & Company.

Homestead, Oklahoma—Close & Kennedy have succeeded to the hardware business of Chilcott & Close.

Centralia, Kansas—C. B. Tripp has sold out his hardware business to C. C. Wadleigh.

Horton, Kansas—T. V. Weinhold has sold his hardware store to E. P. Connett.

Waverly, Kansas—F. E. Johnson has purchased the hardware store of D. B. Jackson.

Richards, Missouri—Gain & Kramer have succeeded to the hardware business of Kramer & Firestone.

Carleton, Nebraska—F. W. Brown has purchased the hardware store of H. L. Weiner.

Roseland, Nebraska—L. W. Eversman has sold his hardware store to W. F. Duncan.

Mt. Pleasant, Iowa—W. F. Burkett & Company have been succeeded in the hardware business by W. F. Burkett.

Knox City, Missouri—J. W. McCann has sold his hardware store to H. G. Seeger.

Waverly, Iowa—B. B. Jackson has traded his hardware store to H. N. Johnson of Garnett.

Cainsville, Missouri—The hardware firm of Burris & Peshek sold out a few days ago to P. Smith and Tom Hall.

Moline, Illinois—A deal was completed recently by which the firm of Reid & Witter will dissolve and D. O. Reid will become sole owner.

MISCELLANEOUS.

Monmouth, Illinois—G. W. Hill of the electrical supply department of the McCullough Hardware Company has sent a squad of workmen to Plymouth to rebuild the electric light plant.

David City, Nebraska—Paul Walter has purchased a hardware store and will soon locate with his family.

Bloomdale, Ohio—H. B. Strickler, owner of a hardware store, has sold his interest.

Sidney, Iowa—John Irons has severed his connection with C. R. McCartney's hardware. He will move to Glenwood about the middle of September.

Mansfield, Ohio—Wade Culler has resigned his position with the Mansfield Engineering Company, and has accepted a position with the Bare Bros.—Martin Hardware Company.

Port Huron, Michigan—Charles E. Boyce will retire permanently from the Wilson Saw Company.

Anniston, Alabama—Lon E. Davis has resigned his position with the Anniston Hardware Company and will go to Montgomery where he will accept a position with the Snow Tullis Hardware Company.

Albion, Pennsylvania—The hardware store of H. L. Salisbury was robbed. Not over $25 worth of goods were stolen.

Royersford, Pennsylvania—Mr. Thos. Kelly, foreman of the molding department of the Buckwalter stove works, has resigned. Mr. Kelly will become superintendent of the Pittsburg Stove and Range Company of Pittsburg.

Ashtabula, Ohio—The store of the Crosby Hardware Company was robbed to the extent of $100 in goods.

Hale, Missouri—The hardware store of Myers & Fullerton has been damaged by fire.

Quinly, Iowa—The hardware store of W. W. Burchan has been damaged by fire to the extent of $2,000.

Elyria, Ohio—The hardware store of A. Ruder was broken into by burglars and over $75 worth of goods carried away.

Fayette, Ohio—J. L. Sturgeon has put up a new building near the Wabash station and has opened a hardware store.

Palmyra, Illinois—Burglary; the hardware store of Porter W. Farmer was entered and about $30 taken.

Lynchburg, Virginia—The store of the Bailey-Spencer Hardware Company on Main street was broken into the other night and razors and revolvers taken.

Some married men are not to be blamed for going out on an occasional "tear." Those, for instance, whose wives blow them up to the "busting" point.

Heating and Ventilating

MUELLER WALL REGISTER.

The Mueller Wrought Steel Wall Register, manufactured by the L. J. Mueller Furnace Company, of Milwaukee, Wisconsin, is an article that recommends itself alike to dealer and consumer. It has many advantages which make of it a most satisfactory and attractive article. It is handsome in design, and while extremely light in construction, is guaranteed to be absolutely unbreakable. It can be placed in a stack like a common register and is easily installed. It can be operated by mere pressure of the foot, thus eliminating the trouble of stooping or burning the fingers. This is a feature which especially recommends the Mueller Register to the user. This register is positively air tight when closed, its different parts being joined together solidly in one place. It is especially adapted for shallow partitions where the studding is four inches or less and where it is desired to retain the full capacity of round or basement pipe.

The numbers 1, 2 and 3 registers are put up one dozen, all same size and finish, in a crate. Number 4 in one-half dozen of same finish.

The Mueller Company issues an elaborate folder containing full particulars and instructions, illustrations and diagrams, which will be furnished upon request. Mention of THE AMERICAN ARTISAN is asked when writing for same.

MAGEE FURNACES AND RANGES.

In the Magee Everett Furnace will be found a superior and thoroughly satisfactory furnace in every particular. It is of the highest grade and most excellent make. It is a model that fully meets the constant demand for an efficient, reliable and economical furnace at a very low price. The Magee Company manufacture also the New Magee Oxford Range, a high-class and handsome model which embraces all of the later and most advanced features in range construction. As in all their goods the material and workmanship is of the highest quality. In this range perfect control over the fire permits a wide range of usefulness—over cooking requiring the utmost delicacy as well as of the largest roasts. The fire box and fuse are scientifically proportioned to give any required heat with the least amount of fuel. This range will be sure to catch and hold the eye of the most particular housekeeper.

The business philosophy of the Magee Company may be described in the words used in the title of a popular story—"To Have and To Hold." They want all dealers who handle their goods "to have" the most satisfactory and profitable trade their territory affords and they want them "to hold" it continuously. To this end, they state, their energies are constantly applied. It is a policy that for over fifty years they have kept in force.

In the goods above offered they give "holding" arguments. With these new productions, the Oxford Range and Everett Furnace, the Magee Company believe that they cover every particular requirement which the dealer can be called upon to meet—from the supreme standard of excellence to the modest point where utility at the lowest possible cost is the sole consideration.

We can conscientiously commend the Oxford Range and Everett Furnace to the careful consideration of all dealers and believe that these goods will help them both "to have and to hold." Catalogue and prices promptly sent upon request. Kindly make mention, when writing, of THE AMERICAN ARTISAN.

MICHIGAN SAFETY FURNACE PIPE.

A sectional safety wall pipe for furnaces in which the inner walls form the cross walls, making a Perfect Hot Air Furnace Pipe, is manufactured by The Michigan Safety Furnace Pipe Company of Brooklyn & Abbott street, Detroit, Michigan, and it is guaranteed by the manufacturers to be the only sectional furnace pipe made in this way. In the labor of setting it up it is claimed that fully 60 per cent is saved, as the work can be easily and quickly done. It is stiffly made, finely finished and thoroughly fitted, with positively no chance of buckling.

Twenty-five years of personal experience in putting up hot air heaters and years of experimenting in making pipe, enables the manufactures to turn out a sectional wall pipe which is as near perfection as can be made. The popularity and large sale of The Michigan Safety Furnace Pipe, is a testimonial of its worth. Furnace dealers, as a rule, have shops and tools for the manufacturing of pipe and fittings, and can make them up by hand as needed, but the cost of labor is much greater in making on a small scale than when put up in large quantities by machinery adapted for the work; furthermore hand-made pipe lacks the improvements to be found in The Michigan Safety Furnace Pipe.

The advantages of this pipe are numerous: 1st—the air chamber between the inner and outer pipe which is retained by means of the perforated spacing collar at each end of every piece and joint. 2d—the pipe and joints being made in suitable lengths enables the furnace man to construct any desired style of stack, of any length or shape, without cutting or wasting or in any way impairing the fitted features of the pipe. 3d—every joint and piece firmly embraces and fits into the other so that when a stack is completed it is smooth and straight inside and out. This pipe is made out of the very best bright tin plate with rivets or solder and made by special machinery.

A sample order for this pipe will be sure to convince the dealer that he has on hand a ready selling and thoroughly satisfactory article. A sample piece of pipe together with catalogue and full particulars will be sent upon application. When writing kindly remember that you read this notice in THE AMERICAN ARTISAN.

ENGLISH GRATE FIRES.

I wish that I could accurately outline the origin of the fog producing grate fire prevalent in London, says one who has personal knowledge of the subject. Unfortunately, the leading authorities differ. One set,

headed by Lord Soake, F. R. S., who was elevated to the peerage for his discovery that whiskey contained alcohol, contend that grates were brought over from Rome by the late J. Caesar, builder of the first bridge across the Thames river. The Duke of Whatborough, however, declares that the grate introduced by Mr. Caesar was discarded by the Britons long before the Norman conquest on the ground that it did not produce enough smoke to keep up the average of fog. William the Conqueror, His Grace contends—and he is by no means without supporters—was not only the inventor of the open grate, but also the first grower of the smoke-producing coal, which even to-day commands the rate of twenty-one shillings a ton.

At the present time the people of the United Kingdom seem hopelessly divided on the question and call for no American interference. Hence, until a decision has been reached by the British themselves the grate must be judged by its works alone. All we know is that it is archaic and smoky and the best known example of non-conductor of heat.

The average unthinking foreigner who has come to London in the winter and has tried to get warm by means of a grate fire will madly rush to the nearest morgue and ask if there are any vacant slabs. Such an action is, of course, insanely facetious. Everybody knows that a morgue is supposed to be colder than a grate heated London room, in spite of the fact that the degrees of clamminess are about the same.

In the half civilized United States of America barbaric steam pipes, hot water pipes, hot air furnace pipes and coal stoves prevail to a wearisome extent. Great London, majestic in its adherence to peculiar idols, will have none of them. The grate and the Union Jack occupy equal places in London's esteem, and any effort of an American house heating concern to introduce new methods is treated as if it were a foreign invasion—like an armada, in fact.

The London grate is built into the side of each room of a house and each has a flue of its own leading to the open air. The ends of these flues are generally discernible side by side on the roof on clear days.

One day some hundreds of years ago the Duke of Gloucester, afterward Richard III., and Wat Tyler were walking down Piccadilly when all the flues on one house began to smoke.

"Wat," said the Duke, "I'll bet you half a crown that the second flue gives out more smoke than the fifth in the next half hour."

"You're on," replied Wat, "and I'll make another proposition—that No. 1 gives out blacker smoke than No. 3."

"Agreed," said the Duke, "but to keep this straight I must put it down in my book."

From this incident originated the practice of bookmaking which has become so reprehensibly prevalent. How the Duke won all of Tyler's money in a single afternoon and how the Duke's brother, Clarence, become so jealous of his wealth that he had to be put away is, of course, all a matter of record.

When you leave your room in the morning the landlady will stop you at the door with remarks about the weather.

"I say, sir," she will remark—and please remember that "say" must be pronounced like "sigh"—"I say, sir, but I'll lay the fire in your room, so you can light it when you gets 'ome."

"Thangkew, Mrs. Perkins," you say, "Thangkew!"

You hand her tuppence to show your appreciation of her thoughtfulness and then go out among mankind.

"Thangkew, sir! Thangkew!!!"

When you return you see in the grate layers of paper, kindling wood and a black substance called "coal". To the paper you touch a match, hoping that the paper blaze will ignite the wood, and that the latter, in turn, will fire up the coal. Alas for your hopes! The British newspaper, which lies at the bottom of all London grate fires, is so solid and unemotional that it won't catch fire in the ordinary way, and you sigh for a good old New York "wuxtry". The British newspaper smoulders and belches forth smoke—fifty per cent into your room and the other fifty up the flue. The kindling wood does likewise, and the sluggish "coal" does worse.

Occasionally you see a few red gleams supposed to be fire. They make a rather pretty contrast to the blackness of the grate itself—and eventually the grate is filled with ashes.

As soon as the thermometer sees the ashes it sinks into an even deeper slumber, only to be aroused to a lethargic interest when you light another fire.

The evident connivance of grate and thermometer is well worth the attention of the new Parliament—but since it is an established evil there is little hope that the liberal ministry will sanction a penalizing act.

And yet Londoners will tell you that the coal they use, dug from British mines, is "the best in the world, and there's no getting away from that." Far be it from me to make any attack on the morals of British coal. In fact, I know that it is a modest, shrinking substance, forever hiding its warmth and red blushes under the mantle of heavy smoke.

LOW RATES TO PACIFIC COAST.

Via Chicago, Milwaukee & St. Paul Railway.

Colonist tickets, good in tourist sleeping cars, will be sold from Chicago to Seattle, Portland, Tacoma, San Francisco, Los Angeles and many other Pacific Coast points for $33, September 15 to October 31, inclusive. Reduced rates to hundreds of other points west and northwest. Folder descriptive of through train service and complete information about rates and routes will be sent on request. F. A. Miller, General Passenger Agent, Chicago.

Among our new advertisements will be noted that of the Industrial Department of the Rock Island-Frisco Lines.

The above department has jurisdiction over the lines of the Chicago, Rock Island & Pacific R. R., the St. Louis & San Francisco R. R. and the Chicago & Eastern Illinois R. R. and reaches seventeen states and territories. It necessarily follows therefore, because of the vast extent of territory reached, and with such varying conditions, that desirable manufacturing locations for all classes of industry can be found along their rails.

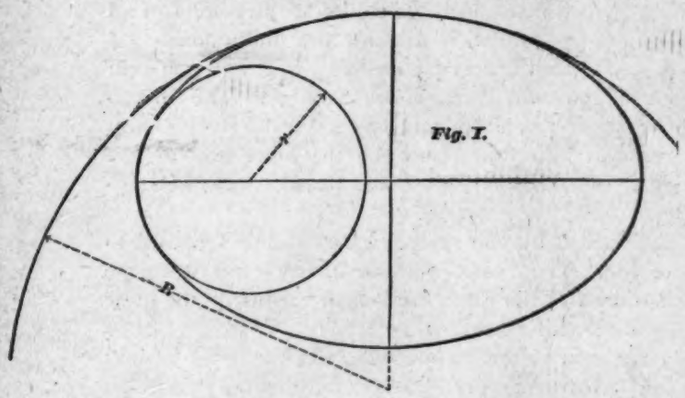
The province of the Industrial Department is to advise the manufacturer regarding the best all-round industrial locations for his particular industry from the standpoint of accessibility to his raw materials, fuel supply, markets for finished product, favorable labor conditions and inducements procurable from local commercial organizations. The Rock Island-Frisco Industrial Department offers its aid and co-operation to all manufacturers and business men seeking new locations, and can furnish particulars regarding the above mentioned manufacturing requirements at cities along its rails.

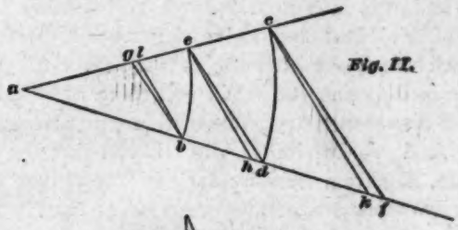
Tinshop

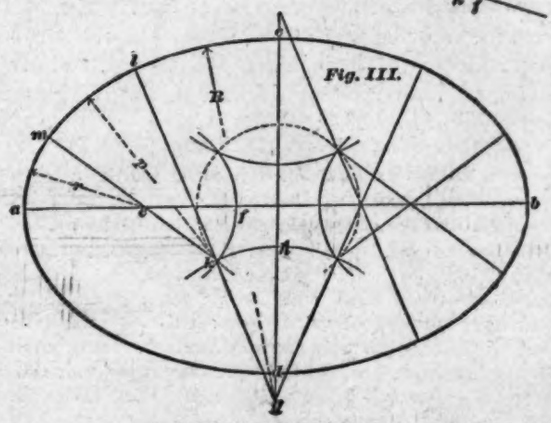
HOW TO CONSTRUCT AN ELLIPSE.

The eight-centered oval and ellipse here shown is worked out by a method I devised some years ago, and which I have successfully used in classroom work:

By a careful selection of radii, an eight-centered oval may be drawn which will very nearly coincide with the ellipse constructed on the same axes, and may, within wide limits, be accepted as a representation of it. By this method the use of the curve ruler is avoid-







The Eight-Centered Ellipse.

ed, and symmetry with respect to the axes is maintained. The construction given below is the result of an extended series of observations upon eight-centered ovals constructed on axes of various proportions, and a comparison of these curves with the corresponding ellipses.

In drawing an eight-centered oval, three radii are employed. With the shortest radius we describe the two arcs which pass through the vertices of the mejor axis; with the longest the two arcs which pass through the vertices of the miner axis; and with the third radius the four arcs which connect the former; i. e., the figure is an assemblage of eight arcs of circles.

Fig. 1 represents an ellipse with the osculating circles—or circles of curvature—at the vertices of the minor and major axes. A simple method of determining the radii of curvature is illustrated in Fig. 2. Draw the straight lines *a f* and *a c* forming any angle at *a*. With *a* as a center, and with radii *a b* and *a d* respectively equal to the semi-minor and semi-major axes, draw the arcs *b e* and *d c*. Join *e d* and through *b* and *c* respectively draw *b g* and *c f* parallel to *e d* intersecting *a c* at *g*, and *a f* at *f*; *a f* is the radius of curvature at the vertex of the minor axis; and *a g* the radius of curvature at the vertex of the major exis.

From the similarity of the triangles *a c f*, *a e d*, and *a g b*, the student will see that this construction is in conformity with a demonstration in the calculus, viz., that the radius of curvature at the vertex of an axis is a third proportional to the semi-axes. With these radii (R and r) the osculating circles in Fig. 1 are described.

One of these circles falls wholly *without* the ellipse, while the other falls wholly *within* the curve. It is evident, then, that in order to represent an ellipse approximately by arcs of circles the longest radius should be less than R and the shortest radius greater than r.

The following empirical construction gives the best result: Lay off *d h* (Fig. 2) equal to one-eighth of *b d*. Join *e h*, and draw *c k* and *b l* parrallel to *e h*. Take *a k* for the longest radius ($= R$) a *l* for the shortest radius ($=r$) and the arithmetical mean, or one-half the sum of the semi-axes, for the third radius ($= p$) and employ these radii in the well-known construction for the eight-centered oval.

In case the student may not be familiar with this figure it is illustrated. Let *a b* and *c d* (Fig. 3) be the major and minor axes. Lay off *a e* equal to *r*, and *a f* equal to *p*; also lay off *c g* equal to *R*, and *c h* equal to *p*. With *g* as a center and *g h* as a radius, draw the arc *h k*; with the center *e* and radius *e g* draw the arc *f k* intersecting the former at *k*. Draw the line *g k* and produce it, making *g l* equal to *R*. Draw *k e* and produce, making *k m* equal to *p*. With the center *g* and radius *g c* ($=R$) draw the arc *c l*; with the center *k* and radius *k l* ($= p$) draw the arc *l m*; and with the center *e* and radius *e m* ($=r$) draw the arc *m a*.

Since the remainder of the work is symmetrical with respect to the axes, the student will need no explanation beyond that which is afforded by the drawing.

FREDERIC R. HONEY.

Trinity College, Hartford, Conn.

CRACKING THE NUT.

To THE AMERICAN ARTISAN:

"A Hard Nut to Crack" covers the ground so completely as to leave little room to comment on same. However, any sheet metal worker can procure charcoal iron at the present time which he can guarantee to his customer that its life will equal that of his own if placed on a dwelling where it is not exposed to the fumes of acids or gases. But this is an age of steel; and if the manufacturer should return to the production of charcoal iron, could he supply the demand?

I think the sheet metal worker of to-day does not care whether he gets Bessemer Open Hearth steel or

charcoal iron as long as he gets an article which he can recommend to his customer and this he must have for the success of his future business. Tin plate, galvanized and black sheet iron are all in bad repute. I think and believe that chemists will bear me out in saying that the gases are worked into the body of the material and will destroy the same in time.

Returning to the article at issue: Much depends on the kind of a building from which this example is to be taken—whether gases or acids existed to destroy the body of the metal. Again, raw acid as known to the trade should never, in my judgment, be used in soldering on a new galvanized iron roof (beg pardon—steel). In my practical experience for years past, I have always refused to give my guarantee on the life of metal, but hold the workmanship up to date.

Yours truly,

WM. A. GALLAHER.

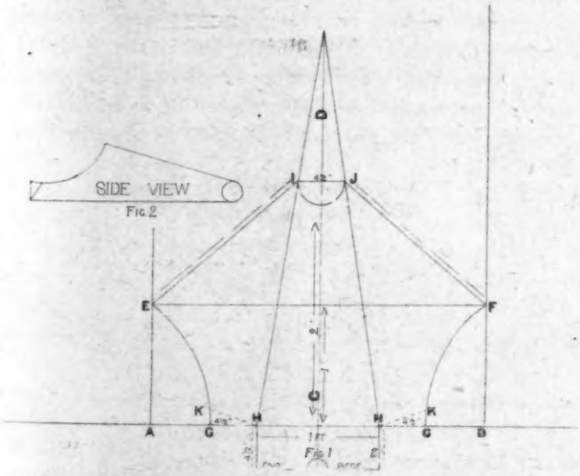
Wilmington, Delaware.

PATTERN FOR CONDUCTOR HEAD FOR CREAMERY OR DAIRY USE.

To THE AMERICAN ARTISAN:

The following demonstration is for developing a pattern for creamery and dairy conductor heads, which the writer thinks would be of great interest to his fellow tinks.

In Fig. 1 you will find sketch of a certain conductor head which the writer makes a few of the year around.



First, find the required width of supposed head as you find in Fig. 1, the lines AB, then mark the center as line CD. Then measure one-half the full length of pattern as line EF. Then commence to work out from the center for the width and height as lines GH and same at the top as lines IJ, then mark your cutting line allowing 1 inch lap for lock seam as shown by lines EI and FJ. Now for the finishing lines, which must be drawn carefully by hand to get the correct shape. Also make it a rule to use plenty of eyesight and steady movement, as you see lines GE and GF.

You may make it all in one piece if you desire, by marking end piece on same pattern, as I have shown here. You may notice in Fig. 1 lines KH and HK. They are there shown to make end piece slanting so the milk or whatever is to be conducted through it does not splash out. Notice the semi-circle in end piece is cut out for the faucet of weighing tank.

This pattern I use quite frequently, and I find no difficulty in cutting it. Use your own judgment. As the old proverb goes, "God helps them who help themselves." In Fig. 2 you will find the sideview of conductor head. I hope this will be looked upon by all my brother tinks, and anyone of the creed wishing further information, I will be glad to answer all questions asked. Yours respectfully,

HANKA POCA CHICA POO,
CHAS. J. BOTHFIELD,

Cleveland, Wisconsin.

GALVANIZED IRON VERSUS ELECTROPLATE

To THE AMERICAN ARTISAN:

In regard to the item on the wisdom of using galvanized iron for roofing, by Mr. Wm. Earley, I wish to remark that I do not endorse the advice of Artemus Ward to the young man about to be married. I would rather tell him "If you are able to meet the obligations of married life and have found your proper mate, get married and make a man of yourself as nature intended." Volumes could be written to support my stand on this point, but as this journal is intended for another purpose, I only mention this remark because I think the comparison a good one, inasmuch as good advice in either case can be given only conditionally.

I regard galvanized iron far superior to the best of tin for roofing or any other purpose, where water only comes in contact with it. Still I would not recommend the use of it for a roof of less pitch than 2 inches to the foot, or for any roof of such shape that requires much soldering to make it water tight, because a lap joint on galvanized iron cannot be soldered strong enough to withstand the contraction and expansion to which the metal is subjected by climatic changes.

On the other hand if a good roof is wanted on an even, flat surface provided with proper fall to the eave, I would advise the use of galvanized iron, put on standing seam fashion, cross seams double locked and the seams capped with the edge turned up on the strips, otherwise known as "self capping."

This kind of a roof will undoubtedly last until the building has either changed hands or the owner finds it difficult to remember when the roof was put on.

For a roof of less than 2 in. pitch to the foot, I would advise using, for a steep roof which has valleys, dormer windows and other obstructions to work around, slate which seems to be the right thing. But a good and ornamental roof can be constructed of galvanized iron shingles which have a strong advantage over slate on account of the lightness.

As to the roof mentioned by Mr. Earley, I cannot understand how contraction and expansion of the roof could effect the down-pipe. I would rather lay the cause of the trouble to the settling of the building or possibly the ground or paving around the building. In any event this trouble could have been avoided if the pipe had not been soldered to the outlet of the gutter. This should never be done, nor should the down-pipes be soldered together but slipped on one another and each length supported by the conductor hooks or some other kind of fasteners. Then the bursting of pipes is a common occurrence, but when one hears of a case

of the kind, he can safely bet that the pipe is a round one. If corrugated conductor pipes only were used, the bursting of pipes would be a thing of the past.

Before attempting to decide on the advisability of using any particular kind of material for roofing, one should consider the conditions and shape of the surface to be covered and understand the particular nature of each of the different kinds of materials, which can be used and then look through his book of experience and if he has a good memory and sufficient experience, it will require but little thought to decide rightly.

In my opinion galvanized iron deserves the preference to tin where it is practical to use it, and for durability it is a close competitor to slate of inferior quality.

Yours truly,

JACOB BUHR,
Union City, Indiana.

MERCHANT'S ROOFING PLATES.

In the roofing plates manufactured by the Merchant & Evans Company, of Philadelphia, Pa., will be found a superior article of roofing. It is made in various styles, among which are: "Merchant's Old Method," "Merchant's Roofing," "Merchant's American Old Style," "Camaret" and "Alaska," all of which are of the highest grade as to material and workmanship. An excellent testimonial of their work is given in a pamphlet issued by the company containing a lengthy list of names of company buildings, hotels, hospitals, churches, public buildings, etc., upon which these roofing plates have been used. The Merchant & Evans Company are sole manufacturers of the "Star" ventilator, and combination skylight; also metal "Spanish" tiles and Gothic shingles, all of which are storm proof, easily laid on and highly ornamental.

An illustrated booklet containing illustrations and particulars will be mailed free upon application. Dealers will find in these goods something very satisfactory and salable. When writing, kindly mention THE AMERICAN ARTISAN.

"CLASSIK" METAL CEILINGS.

In the construction of modern buildings many new and attractive features are being introduced, among them there is none better calculated to please the eye and satisfy artistic taste than the sheet metal walls and ceilings which are now being manufactured from thin sheets of fine steel. These sheets are pressed into an endless variety of handsomely designed figures, and when put in place and tastefully painted in any color or variety of colors that the taste may suggest, make a beautiful and durable covering.

Among the productions of this kind taking rank with the very best are the Berger's "Classik" steel walls and ceilings. These goods are of the highest possible attainment in material, design and finish. They are gotten up in all styles, including Greek, Moorish, Italian, French and German Renaissance, Rococo, Colonial and Empire, and for church work the Roman, Romanesque and Gothic, all being complete in all details of cornice, border, center pieces, etc., so that not a single inconsistency can be found in any design.

Berger's "Classik" steel ceilings are suitable for new or old buildings of any architectural style and can be applied to any construction whether of wood, steel, terra cotta or concrete. They are fire resisting, impervious to moisture, lighter than plaster, and will not crack, crumble, or fall from any cause. They do not shrink nor warp and are not susceptible to the effects of vibration. From this it will be seen that they are extremely durable and lasting.

Expert draughtsmen in the employ of the Berger Manufacturing Company, which is located in Canton, Ohio, are engaged upon designs for these walls and ceilings and particular attention is paid to the figure schemes. In a beautiful catalogue issued by this company, which in itself is a work of art, finely printed upon thick, glossy paper, containing very fine photographic reproductions of wall and ceiling designs, are given some choice specimens of the workmanship which makes of the "Classik" goods a most attractive and superior line.

There is given also instructions for taking measurements of ceilings or surfaces to be covered, together with diagrams showing how to proceed with the work. This will be found of value in erecting these walls and ceilings. A glance through this catalogue will suffice to convince the reader of the very high class of these goods. An important feature in their manufacture is the accuracy and smoothness of the joining and the perfect matching where they overlap. In the great variety of styles embraced in this line it will be a very easy matter to suit the most exacting taste. Dealers handling this class of goods will find in the "Classik" brand something of superior excellence. Catalogue and full particulars freely furnished upon application. Mention of THE AMERICAN ARTISAN when writing is requested.

NOTES AND QUERIES.

FURNITURE AND HARDWARE.

From J. M. Erickson, Slater, Iowa.

Do you know of any firm that sells hardware and furniture together?

Ans.—Butler Brothers, Randolph Bridge, Chicago; Lyon Brothers, 250 E. Madison street, Chicago.

ARTIFICIAL ICE MACHINERY.

From M. M. Eichholtz, Litchfield, Minn.

Can you give me the names of firms that handle artificial ice machinery?

Ans.—Fred W. Wolfe Company, 139 Rees street, Chicago; Featherstone Foundry & Machine Company, 203 Railway Exchange, Chicago; York Mfg. Company, 1060 Monadnock block, Chicago; Healy Ice Machine Company, 641 Thirteenth street, Chicago; Rebsamen & Almeroth, 1071 Elston avenue, Chicago; Hastings & White, 154 Lake street, Chicago.

SWEDISH SCYTHES.

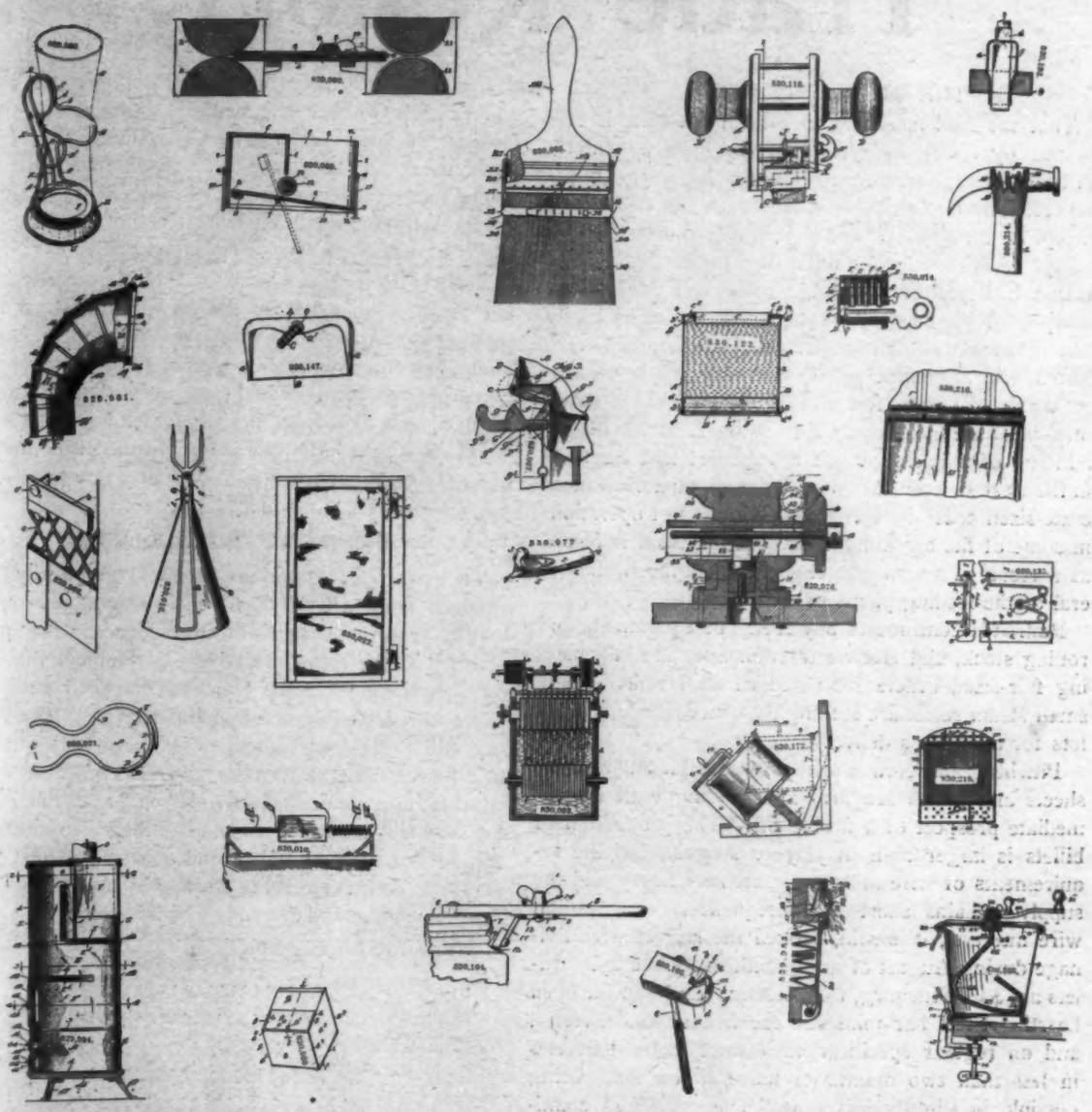
From the Brown-Hurley Hardware Company, Des Moines, Iowa.

Can you give us the name of the manufacturer of the Swedish scythes?

Ans.—Alfred Andresen, 1300 Washington avenue, South, Minneapolis, Minnesota.

A new tin and tinware manufacturing concern of New York city is the Richfield Manufacturing Company, which is capitalized for $5,000.

NEW PATENTS.



829,961. Ventilation-Terminal. Charles P. Gould, East Braintree, Mass., assignor to Fore River Ship Building Company, Quincy, Mass., a corporation of Massachusetts. Filed April 13, 1905. Serial No. 255,325.

829,976. Vise. Carl J. Lindgren, Warren, Pa. Filed Jan. 22, 1906. Serial No. 297,333.

829,983. Curtain-Fastener for Vestibule Cars. Frederick L. Madison, Washington, D. C. Filed May 28, 1906. Serial No. 319,144.

829,990. Pipe-Forming Apparatus. Willis McKee, Elyria, Ohio, assignor to The Elyria Iron & Steel Company, Elyria, Ohio, a corporation of Ohio. Filed Nov. 16, 1904. Serial No. 232,978.

830,010. Churn. William Sanders, St. Louis, Mo., assignor of one-third to J. E. Yount and one-third to E. G. Rankin, St. Louis, Mo. Filed May 29, 1906. Serial No. 319,-324.

830,014. Lock. John H. Shaw, New Haven, and Albert A. Page, East Haven, Conn., assignors to Sargent & Company, New Haven, Conn., a corporation of Connecticut. Filed July 21, 1905. Serial No. 270,716.

830,016. Guard for Kitchen Utensils. Oscar V. Sims, Laurel, Miss. Filed July 19, 1905. Serial No. 270,379.

830,022. Hinge. Henry Stiles, Miles, Ohio, assignor of one-half to Will S. Reed, Cleveland, Ohio. Filed March 16, 1904. Serial No. 198,327.

830,050. Sheet Metal Caddy for Coffee, etc. Edward W. Carnes, Chicago, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey. Filed Nov. 2, 1905. Serial No. 285,540.

830,065. Brush Bridle. Joseph T. Hart, Brooklyn, N. Y. Filed Oct. 11, 1905. Serial No. 282,310.

830,067. Gravity Lock for Windows, William A. Heartt, New York, N. Y., assignor to Frank Voigtmann, Chicago, Ill., and Silas H. Pomeroy, New York, N. Y., composing the firm of Voightmann and Company, Chicago, Ill. Filed June 9, 1905. Serial No. 264,400.

830,104. Bending Tool. Edward J. Sarbach, Lakewood, Ohio. Filed May 15, 1906. Serial No. 317,000.

830,105. Safety Razor. Ernst Scharff, Frankfort-on-the-Main, Germany. Filed April 26, 1904. Serial No. 204,940.

830,118. Lock and Latch Mechanism. Henry G. Voight, New Britain, Conn., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn., a corporation of Connecticut. Filed July 19, 1905. Serial No. 270,305.

830,072. Nail Extractor. John A. Houlihan, Rochester, N. Y. Filed Oct. 16, 1905. Serial No. 282,879.

830,135. Supporting Bracket for Curtain and Other Rollers. Charles A. Corman, Boston, Mass. Filed April 5, 1906. Serial No. 310,146.

830,147. Fire Hoe. Jacob P. Hanson, New York, N. Y. Filed May 14, 1906. Serial No. 316,831.

830,172. Washing Machine. William N. Rettinger, Bourbon, Ind. Filed March 17, 1905. Serial No. 250,582.

830,193. Method of Manufacturing Seamless Plate Metal Vessels of Angular Cross-Section. Otto Anderson, Olofstrom, Sweden. Filed Oct. 18, 1905. Serial No. 283,352.

830,214. Wedge. Harry E. Denison and Henry H. Blake, Auburn, N. Y. Filed Oct. 3, 1904. Serial No. 227,055.

830,216. Roof for Houses. William M. Ducker, New York, N. Y. Filed Dec. 27, 1904. Serial No. 238,532.

830,219. Water Cooler. Joseph M. Gaar and John C. F. Laser, Indianapolis, Ind. Filed Dec. 2, 1904. Serial No. 235,-273.

830,256. Bread Mixer. Perry C. Smith, Chicago, Ill. Filed Oct. 10, 1905. Serial No. 282,126.

Trade Report.

THE STEEL SITUATION.

That the steel market is in a turbulent state is evidenced by conditions prevailing in eastern centers. Pittsburg manufacturers are so far behind with orders on their books that new orders are not considered except at an advance and principally for future delivery. Advances in the unfinished product to a great extent justify this. Leading mills are competing sharply for big steel contracts, which are to be let by San Francisco building interests, which, it is estimated, will aggregate 50,000 tons and will be awarded within the next few weeks. Inquiries for structural steel are being made from Valparaiso for the rebuilding of that city, and it is expected that the mills in the East and central West will book numerous moderate-sized orders. Temporary cessation of operations in some of the big mills in the central West is feared as a result of a strike among union engineers in several of the leading plants of that section.

Railroads continue to buy freely of equipments and rolling stock, and electric traction lines are still placing fair-sized orders for standard steel rails. Many small steam roads are seeking to secure supplementary lots for this year's delivery.

Pittsburg and New York quotations on billets, bars, sheets and plates are firm and holding with no immediate prospect of a falling off. The production of billets is larger than in July or August, but the requirements of wire mills are extremely heavy and the supply remains short in consequence. The leading wire interests, it is said, booked the largest wire tonnage during August of any month in its history. Billets are $28, Pittsburg, for Bessemer, and $29 for open hearth. Steel bar mills are far behind in deliveries, and on regular specifications cannot make deliveries in less than two months or more, a few sizes being possible in slightly less time. The congested condition has resulted in premiums on steel bars in some instances, while business has gone over to iron bars, which show premiums. The belief is still prevalent that there will be an advance in both sheets and tin plates before long.

COPPER MARKET STRONG.

The copper market continues to show the strength which has characterized it for several days. Although there has been no falling off in the volume of domestic business, the higher prices asked by all producers and their selling agencies have checked to some extent the buying movement among European consumers who were unwilling to pay 19⅛c per pound for electrolytic metal for September shipment. A few fair-sized lots of electrolytic copper, however, have been purchased for October and November shipments by the continental melters on the basis of 19c per pound.

Home consumers continued to place heavy orders for electrolytic for November and December deliveries at 19c per pound, while a few of these domestic melters willingly paid 19¼c per pound for small lots of this grade which they discovered available for September and October shipments. A moderate-sized tonnage of lake copper was also contracted for by home users on the basis of 19⅛c for deliveries throughout the remainder of this year. Casting grades also continued fairly active, but very firm at 18¾c for nearby deliveries.

Exports from New York and Baltimore within a few days, as reported by the New York Metal Exchange, aggregated 1,950 tons, making the shipments in the first 10 days of this month 4,114 tons. Additional exports from Pacific coast ports during August involved 400 tons from Seattle, which, with the shipments from the Atlantic ports during last month, make the total exports for August 20,433 tons.

PIG IRON STILL BULLISH.

The pig iron situation remains practically unchanged from what it has been for some weeks, the bullish features being still in evidence. The great scarcity of the metal available for shipment throughout the remainder of the year has compelled many furnaces to refuse orders for such deliveries. The foundry and forge iron picked up by consumers in small lots for October, November and December deliveries is bringing premiums of $1 and even $2 per ton. Leading melters continued to cover their requirements throughout the first and second quarters of next year, and little business is being transacted for deliveries before November and December of this year.

Pittsburgh prices on pig iron, f. o. b., are:

No. 2 foundry	$18.85@.....
Gray forge	16.35@16.50
Bessemer iron	18.60@18.85
Ferro-manganese	80.00@90.00
Muck bars	28.50@29.00
Iron bars	1.50@ 1.60
Wire nails	1.85@ 1.90
Wire rods	33.00@34.00
Cut nails	1.75@ 1.80
Barbed wire, painted	2.00@ 2.15
Barbed wire, galvanized	2.30@ 2.45
Cotton ties	85@ 95

MERCHANT PIPE.

Eastern jobbers are buying freely for current needs and are also covering future requirements more generally than has been the case up to the present time. Quotations, however, continue on an exceedingly low basis and owing to the high cost of raw material concessions are practically unheard of. Sales are made on the basis of 81 and 5 off the list, Pittsburgh, and discounts in car lots, Chicago, are as follows: Black steel pipe, 79.35 per cent on the base sizes, ¾ to 6 in., and galvanized, 69.35 per cent. Iron pipe is quoted from 1½ to 2 points higher. From store in small lots Chicago jobbers are quoting 76½ to 77 per cent on black steel pipe, ¾ to 6 in.

STRUCTUSAL MATERIAL.

New York distributers have reduced quotations on material from stock $3 to $4 a ton, this move no doubt having been prompted by the improved deliveries that can be secured from the structural mills. The operation of the new mill of the Illinois Steel Company at its South Works has relieved the local situation, and consumers are willing to wait for direct shipments, now that they can be made in two to four weeks. The demand for semi-fabricated material is, however, unabated, and warehouses report the continued movement of a large tonnage. Material from stock is now quoted on the basis of 2.05c to 2.10c, f. o. b. Chicago. The contract for a 4,000-ton bridge for western railroad extensions was awarded the Pennsylvania Steel Company. Quotations are as follows: Beams and channels, 3 to 15 in., inclusive, 1.86½c; angles, 3 to 6 in., ¼-in. and heavier, 1.86½c; larger than 6 in. on one or both legs, 1.96½c; beams, larger than 15 in., 1.96½c; zees, 3 in. and over, 1.86½c; tees, 3 in. and over, 1.91½c, in addition to the usual extras for cutting to extra lengths, punching, coping, bending and other shop work.

OLD MATERIAL.

Business in all descriptions of scrap iron and steel continues very active and as supplies are small further advances are expected.

Old iron rails	$21.00@21.50
Relaying steel rails	26.00@26.50
Old steel rails, rerolling lengths	18.00@18.50
Old steel rails, short lengths	16.00@16.50
Old car wheels	17.50@18.00
Hammered iron axles	26.50@27.00
Old steel car axles	20.50@21.00
Heavy melting steel scrap	16.00@16.50
No. 1 railroad wrought scrap	19.00@19.50
No. 1 yard wrought scrap	17.00@17.50
Iron track scrap	17.00@17.50
Wrought pipe	12.50@13.00
Ordinary light iron	9.50@10.00
Cast borings	9.50@10.00
Wrought turnings	12.50@13.00
No. 1 machinery cast	15.50@16.00
Stove plate	11.00@11.50
Railroad malleable cast	15.50@16.00

TIN PLATE.

Leading mills are booking moderate-sized orders of tin plate on the basis of $3.75 per box of 100 lbs. for coke tins, 14x20 inches.

STEEL AND IRON SCRAP.

The Pittsburgh scrap market is reported in about the same condition as reported a week ago. Dealers who have scrap in stock believe that prices will be better, and are inclined to hold it, while consumers are not willing to meet the ideas of sellers, and are holding off from buying. The market is in the shape of a deadlock and comparatively little material is changing hands. Heavy steel scrap continues to be held at $16.75 to $17 per gross ton, and reports are that offers of $16.50 by consumers have been turned down. Dealers quote other grades as follows, per gross ton: No. 1 wrought scrap, $18.25 to $18.50; bundled sheet scrap, $14.50 to $14.75; cast iron borings, $9.75 to $10; wrought turnings, $12.25 to $12.50; machinery cast scrap, $16; iron axles, $28 to $28.50; steel axles, $23.50 to $24.

Rogers, Brown & Company will say in their weekly report: The demand for pig iron for delivery during the first half of 1907 continues and inquiries are coming in constantly from unexpected sources. Some of the important consumers who have been holding off have decided that nothing will be gained by waiting longer before placing contracts, and a considerable tonnage has been sold.

Iron producers depending on supply of Lake Superior ores are considerably alarmed by reason of the notices received from several ore companies cutting down their contracts because of inability to ship the ore this season.

There is a decided scarcity of standard grades of ore and at present it is a question with a number of furnaces whether they will be able to get a sufficient quantity to keep their plants in operation until the opening of navigation next year. In view of this fact and the probable increased difficulty in the matter of coke shipments later in the season, and the further fact that consumption seems to be increasing, it is very strange that iron producers are willing to sell at lower prices for delivery during 1907 than for the remainder of 1906. All indications at present point to as great a shortage of iron early next year as exists now.

Spot iron, for which there is some urgent inquiry, brings about $1.50 per ton more than current quotations on next year's iron. Blast furnace companies evidently are keeping prices down so that consumption will not be curtailed next year.

The coke situation is serious. Scarcity of labor and of cars combined keeps the furnaces on the ragged edge and some of them are obliged to bank occasionally. There is no immediate prospect of relief.

Matthew Addy & Company will say in their weekly report: There are so many features in the pig iron situation that it is difficult to say which is the most interesting. The demand for spot shipment on old orders is strong. And the distress of foundrymen who are short of iron is annoying. There is a hurry call for more iron than can be supplied. The worst of this situation is that the end is not in sight. On the contrary there is no doubt at all but as we get further along in the year conditions will not improve. They are certain to grow more strenuous, and in Birmingham, where things are acuter than elsewhere, they are predicting that 2 foundry will go to $20 before the end of the year. One of the leading manufacturers of Ohio did not believe the stories he heard from us and others regarding the scarcity of iron in the south. He wouldn't take any one's word for it, and went to Birmingham to make a personal investigation. The result was that on his return here he promptly—for he was in need of iron—purchased the various odds and ends that were offered for the balance of this year.

As regards actual business, not much has been done in 1906 iron, because there has not been much iron offered for that shipment. What has been offered has found ready takers at a premium. As one of the representatives of a large Birmingham furnace interest put it, "Spot iron is worth pretty much what your conscience will permit you to ask for it." The heavy tonnage has been for shipment over the first half of 1907. Very few furnaces are unwilling to sell ahead. In fact most of them have no objection at present obtainable prices to sell as far ahead as consumers wish to go. It is the general rule, however, to sell for the entire first half or not at all. Everything on the list is selling freely for 1907, and long before the new year comes it is likely that furnace order books will be full.

The railroads in the south are falling down badly in handling coke. They are not able to supply enough empty cars and they are not able to move freight quickly. In this respect the situation is very bad. In the north things are better, but not good enough for any bragging.

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box
IC	14x20	$7 25
IX	14x20	8 25
IXX	14x20	9 48
IXXX	14x20	10 68
IXXXX	14x20	11 88
IC	20x28	14 50
IX	20x28	16 50
IXX	20x28	18 95
IXXX	20x28	21 35
IXXXX	20x28	23 75

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$9 00
Cokes, 200 lbs	IC	20x28	9 35
Cokes, 216 lbs	IC	20x28	9 75
Cokes 270 lbs	IX	20x28	11 70

PIG IRON.

Lake Sup. Charcoal	$19 00@$19 25
North'n Fdy., No. 1	18 80@ 19 05
North'n Fdy., No. 2	18 80@ 18 55
North'n Fdy., No. 3	17 80@ 18 05
Northern Scotch Fdy.	18 80@ 19 05
Ohio Strong Softeners, No. 1	19 80@ 20 05
Ohio Strong Softeners, No. 2	19 30@ 19 55
Southern Fdy., No. 1	18 15@ 18 40
Southern Fdy., No. 2	17 65@ 17 90
Southern Fdy., No. 3	17 15@ 17 40
Southern Fdy., No. 4	16 65@ 16 90
Southern No. 1 Soft	18 15@ 18 40
Southern No. 2 Soft	17 65@ 17 90
Southern Gray Forge	16 15@ 16 40
Southern Mottled	15 90@ 16 15
Southern Silveries, 4 to 6 per cent Silicon	17 90@ 18 15
Jackson Co. Silveries, 8 to 10¢ Silicon	22 30@ 23 30
Ala. and Geo. Car Wheel	23 90@ 24 40
Malleable Bessemer	18 30@ 18 50
Basic Iron	18 85

BLACK STEEL SHEETS.

Nos. 11-12 per 100 lbs	$2 0
Nos. 13-14 per 100 lbs	2 0
Nos. 15-16 per 100 lbs.	2 10
Nos. 17-21 per 100 lbs.	2 15
Nos. 22-24 per 100 lbs.	2 20
Nos. 25-26 per 100 lbs.	2 25
No. 27 per 100 lbs.	2 30
No. 28 per 100 lbs.	2 40

GALVANIZED.

Nos. 10-11 per 100 lbs.	$2 35
Nos. 12-14 per 100 lbs.	2 45
Nos. 15-16 per 100 lbs.	2 55
Nos. 17-21 per 100 lbs.	2 70
Nos. 22-24 per 100 lbs.	2 85
Nos. 25-26 per 100 lbs.	3 05
No. 27 per 100 lbs.	3 25
No. 28 per 100 lbs.	3 45

POLISHED SHEET STEEL.

No. 24 per 100 lbs.	$4 60
No. 26 per 100 lbs.	4 70
No. 27 per 100 lbs.	4 80
No. 28 per 100 lbs.	4 90

SMOOTH STEEL.

Wood's Smooth, No. 20	$2 90
" " No. 22-24	2 95
" " No. 25-26	3 00
" " No. 27	3 05
" " No. 28	3 15

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B" $9 20

Dickey Planished Sheet Steel....8½c

GALVANIZED IRON.

Regular Sizes.

No 16, per 100 lbs.	$3 20
Nos. 18 & 20, per 100 lbs.	3 35
Nos. 22 & 24, per 100 lbs.	3 70
No. 26, per 100 lbs	3 00
No. 27, per 100 lbs	3 50
No. 28, per 100 lbs	4 70
No. 30, per 100 lbs	5 90
Nos. 22 & 24 x 36 in., per 100 lbs.	3 10
No. 26 x 36 in., per 100 lbs.	3 90
No. 27 x 36 in., per 100 lbs.	4 10
No. 28 x 36 in., per 100 lbs.	4 30

SOLDER.

XXX Guaranteed ½ & ½ . per lb.	29 c
Commercial ½ & ½ per lb.	28½c
No. 1 Plumbers	27 c

SHEET ZINC.

600 lb. Casks case, per cwt.	0 90
300 lb. Casks per cwt.	7 95
Sheets per cwt.	7 70

COPPER.

Copper ..... base, 21c

TIN PIGS AND BARS.

Banca, pigs, per lb	35@35½c
Straits, pigs, per lb	35c
Straits in bars, per lb	37c

LEAD.

American Pig	$4 60@$4 62½
Bar	6½c
National (White) brands (in less than 100 lb. lots), per lb	7½c

Sheet.

Full coils per 100 lbs.	$7 00
Cut coils per 100 lbs.	7 25

HARDWARE.

ADZES.

Carpenters'.

Triumph	40&10%
Plumbs	50&5%

Coopers'.

Barton's	20%
White's	15%

Railroad.

Triumph	40&5%
Plumbs	50%

Ship.

Triumph	33⅓&5%
Plumbs	40%
White's	12½%

AMMUNITION.

Caps, Percussion—per 1,000.

F. L. Waterproof, 1-10s	40c
G. D.	35c
Musket	60c

Cartridges.

Winchester Rim Fire Ctgs.	50&3%
Winchester Cent Fire, Pistol and Rifle	25&3%
Winchester Cent Fire, Military and Sporting Ctgs.	15&8%
Winchester Blank Ctgs. 22 cal.	$1 25
Winchester Blank Ctgs. 32 cal., C. F.	4 60
Winchester BB Caps, Rnd. ball	1 50
Winchester BB Caps, Conical ball	1 95
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%

Primers.

Berdan Primers	$1 00
Winchester Primers	20%

Shells.

New Rival Empty Paper Shells, 10 and 12 gauge	25%
New Rival Empty Paper Shells, 16 gauge	20%
Repeater Empty	20%
Leader Smokeless	25%
Winchester Repeater Loaded Shells	40&5%
Winchester Leader	40-10&10%
New Rival Loaded Shells	33⅓ & 11%

Gun Wads—per 1,000.

Winchester Gun Wads	15%

Powder.

	Each
DuPont's Sporting, kegs	$4 50
" " ½ kegs	2 50
" " ¼ kegs	1 40
Dupont's Sm'k'less. 50-lb. drum	22 45
" " 25-lb. kegs.	11 35
" " 12½-lb. kegs	5 80
" " 6¼-lb. kegs.	2 97
" " 1-lb. cans	51

Shot.

Drop shot, sizes smaller than B, 25-lb. bags, per bag	1 90
Drop shot, B and larger sizes, 25-lb. bags, per bag	2 15
Buck Shot, 25-lb. bags, per bag	2 15
Chilled Shot, 25-lb. bags, "	2 15

ANCHORS.

Expansion Screw Anchors.....10%

ANVILS.

Trenton, 70 to 80 lbs.	9½c per lb
Trenton, 81 to 150 lbs.	9½c per lb

ASBESTOS.

Board and Paper.....33⅓%

AUGERS.

Boring Machine	70%
Irwin's	40&10%
Carpenters' Nut	70%

Hollow.

Bonney's—list $30.00	75&5%
Stearn's, No. 3 "	36 00

Post Hole.

Digwell, 8-inch per doz.	12 50
Iwan's Post Hole and Well	40&5%
Vaughan's, 4 to 9-in., per doz.	6 25

Rafting.

Snell's	50&5%

Ship.

Ford's, with or without screw	40-5%
Snell's, " " "	40-5%

AWLS.

Brad.

No. 3 Handled per doz.	$0 40
No. 1050 Handled "	80
Shouldered, assorted, 1 to 4, per gro.	1 20
Patent asst'd, 1 to 4 "	85

Harness.

Common "	95
Patent "	90

Peg.

Shouldered per gro,	$1 20
Patent "	60

Scratch.

No. 1, handled "	4 80
No. 15, socket handled. per doz.	1 25
No. 7 Stanley "	1 80

Sewing.

Common per gro.	90
Patent "	90

AXES.

Boy's Handled.

Lippincott, 3 lb per doz.	$5 00
Falls City "	5 00

Broad.

Plumbs, West, Pat	40-10&5%
" Can. Pat	50&10%
" Firemen's (handled). per doz	$16 00
Plumbs, Miners (handled) "	6 50

Single Bitted (handled).

Gladiator 3 to 4 lbs., pr dz.	$10 00
Flint Edge " " "	8 25
Standard " " "	8 25
Elec. Chopper, Forest Clipper	9 50
Perfect Premier " "	9 00
Crown Crescent " " "	9 25

Single Bitted (without handles).

Gladiator 3 to 4 lbs. per doz.	$7 25
Flint Edge " "	5 75
Standard " "	5 75
Electric Chopper " "	7 00
Perfect " "	6 50
Crown " "	5 00

Double Bitted (without handles).

Gladiator 3 to 4 lbs. per doz.	$9 75
Flint Edge " "	8 50
Perfect " "	9 75

The above prices on axes of 3 to 4 lbs. are the base prices.

3½ to 4½ lbs. advance 25c.
4 to 5 lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$2.50	3.75	4.50	5.00

BALANCES, SPRING.

Frary's	50%
Pelouze	20%

BARS, CROW.

Pinch or Wedge Point.....cwt. $3 25

BASKETS.

Clothes.

Small Willow per doz.	$5 75
Medium " "	6 50
Large " "	7 25

Galvanized Iron.	½ bu.	1 bu.	1½ bu.
Per doz.	$4 00	5 50	7 00

BEATERS.

Carpet.	Per doz
No. 10 Coppered Spring Wire	$0 90
No. 12 Spring Wire	1 10
No. 10 Preston	95

Egg.	Per doz
No. 50 Imp. Dover	$0 70
No. 103 " " tinned	85
No. 150 " " hotel	1 40
No. 10 Heavy hotel tinned	2 10
No. 13 " " " "	3 30
No. 15 " " " "	3 60
No. 18 " " " "	4 50

BELLOWS.

Blacksmiths'	65%
Hand. 8 inch per doz.	$7 50
10 inch "	9 50
Moulders'. 12 inch "	11 00

BELLS.

Call. 3 in. Nickeled Rotary Bell, bronzed base per doz.	$5 00
Cow. High Grade	60&10%
Kentucky	70&10%

Door.	Per doz.
New Departure Automatic	$6 00
Rotary. 3 in. Old Copper Bell	4 00
3 in. Old Copper Bell, fancy	6 00
3 in. Nickeled Steel Bell	4 50
3½ in. Nickeled Steel Bell	5 00

Hand.

Hand Bells, polished	50&10&5%
White Metal	50%
Nickel Plated	40%
Swiss	60&5%
Silver Chime	33⅓%

Miscellaneous.

Church and School, steel alloy	50&10%

Farm, lbs.	40	50	75	100
Each	$1.25	1.60	2.35	2.85

BEVELS, TEE.

Stanley's, rosewood handle, new list	40%
Stanley's iron handle	40%

BINDING, OILCLOTH.

Zinc	80&10&5%
Brass	75&5%
Brass Plated	75&10%

BITS.

Auger.

Extra Double Spur	70&10%
Ford's Car and Machine	40&10%
Triumph	50&5%
Ford's Ship	40&10%
Irwin	50&5%
Russell Jenning's	35&10%
Clark's Expansive	60&5%
Steer's " Small list, $22.00	30%
" " Large " $26.00	30%
Irwin Car	45%
Ford's Ship Auger pattern Car	40&10%
Center	40&10%

Countersink.

No. 18 Wheeler's	per doz.	$1 25
No. 20 "	"	1 75
American Snail head.	"	75
" Rose "	"	90
" Flat	"	75
Mayhew's Flat	"	1 25
" Snail	"	1 25

Dowel.

New Jennings	40&10%

Gimlet.

Standard Double Cut		60%
German Pattern	per doz.	$0 60
German	"	65
Gouge	"	80
Spoon	"	80
Countersink	"	1 00

Reamer.

Jenning's Square	"	2 50
Standard Square	"	75
German Octagon	"	75

Screw Driver.

No. 7 Common	"	50
No. 1 Triumph	"	1 25
No. 2 "	"	1 50
No. 340 Shepardson's	"	1 25
No. 1 Smith's	"	1 25

BLACKING, STOVE. (See Polish)

BLADES, SAW.

Butchers'.
Standard ⅝ & 1¼ in. 40%
Clock Spring 40%
Star 15%
Coil ..... each $1 50
Hack
Disston's ..... 25&5%
Flexible ..... 33⅓&5%
Star ..... 30&5%
Wood.
Jackson's ..... per doz. $3 25
Disston's—No. 6, 16, 26 & 045 .. 4 25
Triumph 3 50
Forest Clipper 3 00

BLOCKS.

Snatch.
Wooden ..... 60&10%
Steel 50%
Tackle.
Iron Strapped ..... 70&10%
Coin Steel ..... 60&10%

BOARDS.

Slove 40%
Wash.
Globe, single ..... per doz. $2 25
" double ..... " 2 75
Magnolia ..... " 2 65
Crystal Glass ..... " 3 40
Brass King ..... " 3 40
Nickel Plate ..... " 3 40
Enamel King ..... " 3 40

BOBS, PLUMB.

Carpenters'.
No. 2, iron ..... per doz. $0 65
No. 00, " ..... " 1 80
No. 0, " ..... " 1 80
No. 3, lead ..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated. " 1 10
No. N30, nickel plat'd " 1 30
No. N31, " " " 1 85

BOLTS.

Carriage, Machine, Etc.
Carriage ⅝x6 and sizes smaller and shorter ..... 70&10%
Carriage, sizes larger and longer than ⅝x6 ..... 60&10%
Machine, ⅝x4 and sizes smaller and shorter ..... 70&10%
Machine, sizes larger and longer than ⅝x⅜x4 ..... 60&10%
Elevator ..... 50-10&5%
Plow ..... 60&10%
Stove ..... 80&10&5%
Tire ..... 75&10%
Wagon Box Strap 70%
Mortise Door.
Gem, iron 60%
" bronze plated 20%
Barrel.
Cast 60%
Wrought ..... 75&10%
" Bronzed 50%
Flush.
Wrought ..... 50&10%
Spring.
Wrought ..... 70&10%
" Heavy 70%
Square.
Cast ..... 50&10%
Wrought 75%

BORERS.

Angular.
Miller's Falls ..... per doz. $13 00
Bung.
Doz.
Enterprise Mfg. Co.'s No. 1 .... $14 00
" " " No. 2 ..... 18 50

BOXES.

Mail, No 1 2 10
Per doz $3.25 4.50 17.50
Miter.
New Langdon ..... 15&5%
Stanley's 30%
Seavey's ..... each $1 50

BRACES

Barber's ..... 50&10&10@50&10&15%
Fray's Genuine Spofford's 60%
◁▷" Nos. 66 to 146 ..... 50%
" No. 0108 ..... $3 50
" No. 0110 ..... 3 75
" No. 08 ..... 2 75
" No. 010 ..... 2 85

BRACKETS.

Hay-Back.
Wenzelmann's No. 1 per doz. $9 00
" No. 2 " 9 60
Shelf.
Cast Iron, Bronzed 50, 10, 5%
Grifin Wrought Steel ..... 75&10%
" Folding ..... 70&10%

BROILERS.

Wire ..... 70&10%
Crown, Self Basting, No. 80, doz. $2 50

BUCKETS

Pump Rubber
Wychoff ..... per gr. $4 75
Cooper ..... " 4 75
Champion ..... " 7 50
Victor ..... " 9 25
Star ..... " 5 00
IXL ..... " 6 75
Well.
Galv'd Qts 10 12 14
Per doz $2 90 $3.25 $3.40
Wooden, top ear, plain, per doz 3 75
" " swivel " 4 85

BUCKS, SAW.

Folding ..... per doz. $2 10

BURRS, RIVETING.

Copper Burrs only ..... 35 10&5%
Tinners' Iron Burrs only 70%

BUTTS.

Cast Iron ..... 70&5%
Wrought Brass 15%
Wrought Steel Bright.
Stanley ..... 75&5%
" Ba l Tip ..... 75&10%
" " Bronzed 70%
Wrought Steel, Japanned.
Nos. 731 and 733 ..... 70-10-10&10%

CALIPERS.

Double 70%
Inside and Outside ..... 70&10%
Wing 70%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M $3 75
Toe.
Shoenberger ..... per ℔ 5 c
Bessemer ..... " 4½c
American ..... " 7 c
Swedes ..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.
Gallons 20 30 40
Each $3.85 $4.50 $5.65
Milk.
Holstein.
Nos 300 301 302
Gals 5 8 10
Per doz $20.00 $21.00 $23.00
Chicago Pattern.
Nos 105 108 110
Per doz $16.50 $18.50 $20.50
Iowa Pattern.
Nos 408 410
Per doz $20.50 $21.50
New Elgin Pattern.
Nos 705 708 710
Per doz 20.50 $22.50 $23.50
Burn Pattern.
Nos 700 701
Gals 8 10
Price $1.85 $2.10

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Diamond, Regular ..... each $3 50
Diamond, Sling ..... " 6 50
Myers' Imperial ..... " 3 50
" Clover Leaf ..... " 3 65

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing ..... 50&10%
Bed ..... 60&5%
Common Plate.
Brass Wheel ..... 60&10%
Iron and porcelain wheels, new list ..... 60&5%
Philadelphia Plate, new list .. 70%
Martin's 60%
Payson's ..... 75&10%

CATCHERS, GRASS.

Carroll s No. C ..... per doz. $4.25
Wildermuth's
Nos 1 2 3
Per doz $5.00 $5.75 $6.25
Nos 4 5 6
Per doz $6.75 $9.50 $10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack ..... doz. pairs $5 75
With Covert snaps ..... " 5 00
With slide ..... " 3 25
Without slide ..... " 2 85
Bright Ox Chains.
5/16 in. $7.25; ⅜ in. $8 45 per 100 lbs.
Cable Coil Chain.
Inch ..... 5/16 ⅜ 7/16 ½
Per 100 lbs.. $9.80 $7.00 $6.00 $5.20
Inch ..... 9/16 ⅝ ¾ ⅞
Per 100 lbs.. $5.00 $4.90 $4.75 $4.65
Inch ..... ⅞ 1 1¼
Per 100 lbs.. $4.55 $4.55 $4.65
Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil
Cow Tie Chains.
American 2 toggle ..... 50&5%
" toggle and snap ... 50&5%
" open & closed ring, 50&5%
Halter Chains.
American, new list ..... 33⅓&5%
German ..... 60&10%
Niagara, new list ..... 40&5
Brown's, " ..... 40&5%
Picture Chains.
Light Brass, 3 ft ..... per doz. 50c
Heavy Brass, 3 ft ..... " 75c
Pump Chain.
Galvanized, per 100 lbs $5.0
Safety Chain.
Brass ..... 60&10%
Special Steel Loading Chain.
Inch ..... ⅜ 7/16 ½
Per 100 lbs ... $16.00 $13.50 $12.50
Stretcher Chains.
5/16 in. $8.50; ⅜ in. $7.75 per 100 lbs.
Tie-Out Chains.
Brown's ..... 70&10%
Trace Chains.
Western Standard.
6½—6-2 ..... per pair 30c
6½—8-2 ..... " 31c
6½—8-3 ..... " 33c
6½—10-3 ..... " 38c
7 — 8-2 ..... " 38c
7 —10-2 ..... " 43c
7 — 10-1 ..... " 48c
7 —10-0 ..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.
Wagon Stay Chains.
Inch ..... ⅜ 7/16 ½
Per 100 lbs ... $6.50 $6.00 $5.50

CHALK, CARPENTERS'.

Blue ..... per gross 75c
Red ..... " 65c
White ..... " 55c
Common White Sch'l Crayon 8c

CHARCOAL

In bags ..... per bag 85c

CHECKS, DOOR.

Blount 33⅓%
Sargent's 33⅓%

CHIMNEY TOPS.

Iwan's Volcano 50%

CHISELS.

Box,
Inches 10 12 14
Round, per doz. $2.10 $2.25 $2.75
Flat " 2.85 3.60 4.20
Cold.
Good quality, ⅝ in. and larger ..... per ℔ 12c
Smaller size per doz.
Socket, Framing and Firmer.
Barton's 20%
Peck, Stow & Wilcox Co 75%
For beveled back, add per doz. .60c
Tanged, Firmer.
With handles ..... 30&5%
Choppers, See Cutlers, Meat.

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers ..... per doz. $6 2
Yankee, for Yankee Screw Drivers 5 0

CHURNS.

Anti-Bent Wood, Gal .. 5 7 10
Each $3.90 $4.60 $4.8
Belle, Barrel 70%
Common Dash, Gal .. 4 5 6
Per doz $7.75 $8.50 $10.50
Hero 70%
Union, Gal 5 7 10
Each $3.65 $3.90 $4.75

CLAMPS.

Adjustable.
Martin's 30%
Carpenters'
Steel Bar 25%
Hose.
Sherman's, brass, ¾ in., per doz. .33c
Double, brass, ¾ in., " 65c
Saw Filers.
Disston's list, $30.00 ..... 30%
Stearn's, No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's. No. 1 $6.00, No. 3 $7.50

CLAWS, TACK.

Cast, wood hdle ..... per doz. 45@60c
Forged steel, wood hdle " $0.80
Solid Steel ..... " 1.60
Giant ..... " .60

CLEANERS.

Drain.
Iwan's Adjustable 55%
Iwan's Stationary ..... 40&5%
Pot.
Wire ..... per doz. $0.55
Side-walk.
Steel ..... per doz. $3.25
XLCR ..... 65&5%

CLEAVERS.

Family.
Grifin, In 6 7 8
Per doz $5.50 $5.75 $6.25
Royal ..... per doz. 2 25
Butchers.
Beattys, Kitchen 40%

CLEVISES.

Malleable ..... 4½c ℔

CLIPPERS.

Bolt ..... $1.90@$4.75

CLIPS.

Axle ..... 65&5%
Damper.
Standard ..... per doz. 65c
Troy ..... " 38c
Hame ..... " 17c

CLOTH.

Emery.
Triumph ..... 50&10%
B. & A 50%
Hardware Wire—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft. $1 95
9 to 12 " " " " 2 25
2 to 3 inclusive—in full roll 3 00
4 and 5 ..... " 3 25
6 ..... " 3 50
7 and 8 ..... " 4 00
Screen Wire.
12 mesh, painted, per 100 sq. ft. $1 10
14 " " " " 1 50

COCKS AND FAUCETS.

Compression Plain Bibbs ... 60-10-2½%
Lever Bibb Cocks ..... 60&10%
Compression Hose Bibbs ..... 60&5%
Telegraph Faucets (new list) ... 50-5%
Racking Cocks (new list) ..... 60&10%
Compression Lock C'ks(n'w list) .. 70%
Andrew's Brass Faucets 70%
Angle Plug Faucets, per doz ... $0.85
Milk Can Faucets, per doz ... $2.60-4.20
Petroleum Faucets ..... 75&10%

COLLARS, STOVE PIPE.

Inches 5 6 7
Plain Tin .... per gro. $1.60 $2.00 $3.00
Japanned Tin " 3.00 3.00 4.25
Lacquered Brass " 2.75 3.25 4.00

COMBS, CURRY.

Nos ... 000 11 15 39 89 108
Per doz. $0.32 .55 1.85 .85 1.10 .75
Nos 299 320 390 532 620 1400
Per doz. $1.00 .80 1.30 1.15 .70 1.35

COMPASSES.

Carpen'ers' 70%
Pencil—Faber's ..... per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 ℔ ..... per ℔ 32c
1½ ℔ ..... 29c 2 ℔ .... " 28c
3 ℔ and larger ..... " 26c

CORD.

Picture.
White Wire (new list) 85%
Sash.
Baltic Braided Flax ..... per ℔ 20c
Silver Lake, white 7-32 in. " 29c
" " " 8-32 in. " 29c
Keystone ..... 8-32 in. " 26c

CORKSCREWS.

Humason & Beckley 33⅓%
Walker's 33⅓%
Williamson's Regular 50%
Williamson's Forged Worm 50%

COTTERS, SPRING.

All sizes—new list ..... 90&30%

COUPLINGS, HOSE.

Brass ..... per doz. $ .90
Brass Plated ..... " .85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine ... per doz. $22.75

CRAYONS—See Chalk.

CROW BARS.

Pinch or Wedge Point, per 100 lbs. $3.25

CUTTERS.

Glass.
Red Devil 45%
Smith & Hemenway Co. 50%
Woodward 40%
Meat.
Enterprise Nos. 5, 10, 12, 22, 32 and 42 ..... 25%
No. 202, list, $1.50 ea. ..... 40&7½%
Universal... Nos. 1 2 3
Per doz $10.50 $12.50 $17.00
Pipe.
Stanwoods... No. 1 2 3
Each $0.85 $1.50 $4.00
Slaw and Crout.
3-knife Crout ..... per doz. $9 75
1-knife Slaw ..... " 1 65
2-knife " ..... " 2 25
Washer ..... " 7 75

DAMPERS, STOVE PIPE.

Standard ..... 50&10%
American ..... 45&10%

DIES, STOCKS AND

Discount ..... 40&5%
King's, Little Giant 33⅓

DIGGERS.

Post Hole.
Acme ..... per doz. $8 75
Atlas ..... " 8 50
Eagle ..... " 5 75
Eureka ..... " 7 00
Hercules ..... " 9 75
Iwan's Split Handle.. " 7 00
Iwan's Perfection ..... " 7 75
Iwan's Hercules pattern " 9 00
Ryan's ..... " 17 00
See also Augers—Post Hole.

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel painted, per doz. $7 98
1⅛ in. " " " 9 50
1⅛ in. 3-panel natural pine, fancy ..... per doz. 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock ..... 60% & 65&5%
Blacksmith's Twist 60%
Breast.
Common ..... each, $2 25
Millers Falls ..... " 2 10
Hand
Goodell's Automatic.
Nos. 01 03 3 20
Per doz.. $7.75 $12.50 $14.25 $11 00
Goodell's Single Gear per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell's ..... per doz. $16 50
Bit Stock.
Standard List... 60&5%@60%@10%

DRIVERS, SCREW.

Hurwood ..... 40-10&10%
Standard ..... 65&10%
Lock Ferrule 60%
Champion 50%
" Pattern 70%
Clark's Interchangeable 30%
Edison 60%
Reed's Lightning ..... 45&5%
Goodell's Spiral ..... 50, 10, 5&2½%
Yankee Ratchet 50%
" " Spiral ..... 50&10%
Smith & Hemenway Co. ..... 40&5%

EAVES TROUGH. GALVANIZED.

Territory. L. C. L.
Eastern ..... 80&2½%
Central ..... 75&10&7½%
Southern ..... 75&10
Western ..... 75&10
S. Western ..... 75&2½
Terms, 2% for cash. Factory shipments generally delivered.

See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches 5 6 7
Smooth, per doz. $0.70 $0.75 $1.10
Plan'd " 1.80 2.00 2.65
Corrugated Conductor.
Discount ..... 60&10%
Corrugated Stove.
Inches 5 6 7
Smooth, per doz. $0.70 $0.80 $1.30
Pol'd " 1.30 1.40 2.10
Plan'd " 2.00 2.20 3.00
Four-Piece Stove.
Inches 5 6 7
Smooth, per doz. 0.40 $0.52 $0.80
Pol'd " .80 1.00 1.20
Plan'd " .90 1.40 2.40

EMERY CLOTH—See Cloth.

EMERY, TURKISH.

Size ..... 5-lb. pkgs. ¼ kegs, kegs
No. 60 to 150, per lb. 6c 4c 4c
Flour ..... " 5c 3c 3c

ENAMEL, IRON.

Nubian, ½-pt. cans ..... per doz. 1 65
Peerless 1 25
Keystone 1 25

EXTRACTORS, PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B. W
Drifting Pick ..... 60, 10&5%
Hooks and—
Brass 60%
Iron 70%

FASTENERS, STORM SASH

Schroeder's ..... per doz. 85
Sensible ..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Nicholson's ..... 70&10%
Disston's ..... 75&10%
Kearney & Froh ..... 75&10%
Royal ..... 80&10%

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior ..... per doz. $4 75
Whisson's Imp ..... " 5 25

FORKS.

These goods are sold net this year.
Barley.
Steel, New List ..... 70&10&5
Wood, 4 tines, per doz. $3.25
Coal, Coke, Cottonseed 60%
Hay.
Jackson, 2 tine ..... 60&10%
" 3 " 70%
" 4 " ..... 70&7½%
Digging ..... 70&10%
Scoop 40%
Header.
Jackson, 3 tine ..... 66⅔&5%
" 4 " ..... 65&10%
Manure.
Jackson, 4 tine ..... 70&5%
Ore 40%
Spading.
Jackson ..... 80&10%

FRAMES.

Hack Saw.
Union ..... per doz. $5 75
Jenning's ..... " 6 25
Cast ..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts. 1 2 3 4 6
Each $1.10 1.30 1.50 1.80 2.30
Qts. 8 10 12 15
Each $2.95 3.80 4.50 5.20
White Mountain.
20 qt., New Platform... each $19 10
25 qt., " " " 22 60
25 qt., Sampson Power . " 43 50
40 qt., " " " 58 25

GAUGES.

Butt and Rabbet.
Stanley R. & L. Co.'s ..... 20&10%
Cream Pail.
Fairmont ..... per doz. $3 75
Marking, Mortise, etc. ..... 50&10%
Saw.
Atkin's, single, 55c; dbl. 80c per doz
Wire.
Disston's 25%

GIMLETS.

Discount ..... 35@40%

GLASS, WINDOW.

First two brackets ..... 90&20%
Above " " ..... 90&10%

GLASSES, LEVEL.

Stanley R. & L. Co. ..... 50&5%

GLUE.

Bulk.
B Amber ..... per lb. 11 c
A White ..... " 14 c
H. S. Amber ..... " 15½c
Liquid.
Army & Navy 40%
Le Page's—
List "A" 37½%
List "B" 33⅓%
List "C" 25%

GOODS.

Bright Wire ..... 90&10%

GREASE, AXLE.

Wood Boxes.
Diamond ..... per gro. $5 50
Frazer's 9 50
Hub Lightning 5 25
Paragon 6 75
Wood Pails.
Frazer's, 15 lb. 80c; 25 lb. $1.30 each
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.
Tin Cans.
Chamellene Graphite.
1 lb. per gross $9 50
3 lb. per gross 25 00
5 lb. per gross 37 00

GRIDDLES.

Soapstone ..... 40&10%

GRINDSTONES.

Family.
Inches 7 8 9
Per doz. $8.25 9.00 10.50
Loose.
Per ton ..... $20 00@$21 00
Mounted.
Ball Bearing 1 2 3
Each $3.15 3.00 2.85
Common Bearing.. 1 2 3
Each $3.00 2.80 2.65

GUN WADS.
(See Ammunition.)

HAFTS, AWL.

Brad.
Common ..... per doz. $0 19
Peg.
Common ..... " 22
Patent, plain top ..... " 47
" leather top... " 52
Sewing.
Common ..... " 22
Patent ..... " 52

HALTERS.

Jute Rope ..... per doz. $0 85
Sisal Rope ..... " 1 85
Web ..... " 1 75
Leather, rope tie ..... " 6 50
" leather tie... " 8 50

HAMMERS, HANDLED.

Blacksmiths' Hand.
Maydole's ..... 40&10%
Engineers'.
Maydole's ..... 40&10%
Farriers'.
Maydole's ..... 35&5%
Machinists'.
Maydole's ..... 40&10%
Nail.
Triumph 40%
Quaker City ..... per doz. $3 00
Cast ..... " 1 10
Maydole's ..... 30&5%
Riveting.
Maydole's ..... 35&5%
Shoe.
Cast ..... per doz. 75c
Tack.
All Iron ..... per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid ..... " 1 55
Magnetic 1 2 3
Per doz 70c 80c $1.00
Magazine ..... per doz. $4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs 80%
5 lbs. and over ..... 80&10%
Masons'.
Single & Double Face.... 75&10&5%

HANDLES.

Auger.
Common Assorted ... per doz. $0 38
Peck's Adjustable ... " 2 10
Ives' " ..... per set 1 35
Axe 60%
Chisel.
Hickory, Tanged Firmer, Assorted, 33c; Large, 38c per doz.
Hickory, Socket Firmer, Assorted 27c; Large, 30c per doz.
Applewood, Tanged Firmer, Assorted, 29c; large, 38c per doz.
Applewood Socket, Firmer, Assorted ..... per doz. 24c
Coal Pick ..... 50&10%
Drifting Pick ..... 50&10%
File, assorted 13c, large 16c per doz.
Hammer.
Adze Eye ..... per doz. 40c
Blacksmiths' ..... per doz. 40c@70c
Machinists' ..... " 45c@70c
Hatchet ..... per doz. 40c
Hay and Manure Fork ..... 33⅓&5%
Hoe and Rake 33⅓%
Saw.
Plain ..... per doz. 75c
Varnished ..... " 80c
Screw Driver.
Assorted ..... " 37c
Large ..... " 48c
Shovel and Spade 33⅓%

HANGERS.

Barn Door
Challenge ..... 60&10%
Peerless ..... 70&10%
Silver Star ..... 60&5%
Storm King ..... 60@5%
World's Best 50%
Wagner's Adjustable ..... 70&10%
Warehouse 60%
Griffin ..... 70&10%
Conductor Pipe.
Griffin ..... 70&10%
Iwan's Perfection 50%
Eave Trough.
Baker's ..... per gro. $2 35
Imperial 20%
Wire 35%
Parlor Door.
Acme ..... per set $3 75
Ives' Improved ..... " 2 50
Lane's Standard ..... " 3 50
" New Model ..... " 3 10
Le Roy Noiseless ..... " 4 00
Richards' ..... 40-10&5%

HASPS.

Hinge, Wrought ..... 50&5%
With Staples—See Staples.

HATCHETS.

Challenge 40%
Blood's ..... 40&10%
Cast Claw ..... per doz. $1 20@1 45
Cast Shingling ..... " $0 95@1 20
Germantown 40%
Plumb's ..... 40&5%
Underhill's Star Lath ..... 40&10%

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1.... per doz. $ 9 00
" No. 2.... " 9 60

HINGES.

Blind.
Clark's Gravity ... per doz. sets 80c
Parker's 65%
Shepherd's Noiseless, for Wood casing ..... per doz. 1 05
Gate.
Clark's 1 2 3
Hgs & Latch .... doz. $2.35 2.60 3.65
Hinges only .... " 1.70 1.90
Latches only... " .70 .75
Knuckle ..... per doz. prs. $6 00
Leed's ..... " sets 6 75
Superior ..... " prs. 9 50
Spring.
American 20%
Bommer Bros. Ball B'g Floor.. 35%
Bommer Bros. Spring Hinges.. 40%
Chicago ..... 25&5%
Columbia Dbl. Acting.... 40&10&5%
Gem 25%
Ideal Detachable.... per gro. $11.10
Matchless 30%
New Idea ..... per gro. $8.40
Oxford 20%
Wrought Iron.
New Lists .....
Griffin.
Light Strap Hinges ..... 65&10&5%
Heavy Strap Hinges ..... 75&10%
Light T Hinges ..... 60&10&7½%
Heavy T Hinges ..... 55&10%
Extra Heavy T Hinges.... 70-10&5%
Cor. Heavy Strap ..... 75&10%
Cor. Ex. Heavy T ..... 70&10&5%
Screw Hook and Strap.
6 to 12 in ..... per 100 lbs. $3 90
14 to 20 in ..... " " 3 65
22 to 36 in ..... " " 3 40
Screw Hook and Eye.
⅝ in ..... per 100 lbs. $6 55
¾ in ..... " " 7 60
⅞ in ..... " " 9 45

HOES.

Garden ..... 75&5%
Grub.
Extra 70%
Hazel ..... per doz. $5 00
Ladies' and Boys' ..... 75&10%
Mortar 80%
Planter's Eye 62½%
Weed ..... 75&15%

HOLLOW WARE—See Ware

HOOKS.

And Eyes.
Brass ..... 50&10&5%
Iron ..... 65&10%
Awning ..... per gro. $1 80
Belt.
Brown's ..... 70&5%
Jones' ..... 65&5%
Bench.
See Stops, Bench.

Box.
Inch..... 6 8 10 12
Per doz.....$1.35 1.65 1.75 2.30
Humason & Beckley's, per doz. 2 50
(See Goods, Bright Wire.)
Bush.
Common Axe Handle. per doz. $7 00
Chain.
Inch... ¼&5/16 ⅜ 7/16 ½
Per 100 $7.60 8.10 9.75 11.50 12 60
Clothes Line.
Japanned.....per doz. 22c@34c
Galvanized..... " 40c
Coat and Hat.
Cast Iron .....per gro. 72c@$1 50
Gem Wire.....70¢
Conductor.
Malleable.....50&10¢@50&10&5¢
Wrought .....40&10¢@50¢
Corn.
Common, unpolished, per doz. $1 35
" polished.... " 1 80
"Cut Easy"..... " 2 75
Gate.
See Goods, Bright Wire.
Grass.
Common. Nos..... 2 3 1
Per doz.....$1.50 1.60 1.70
German.....per doz. 1 75
Little Giant..... " 3 00
Hammock.
With Plate.....per doz. 50c
With Screw..... " 45c
Lambrequin, or Drapery, per gro. 21c
Picture .....50¢@50&10¢
Potato and Manure.....70&12½¢
Screw.
Brass.....80&5¢
(See Goods, Bright Wire.)
Seat Spring.....per lb. 5½c

HOOPS, TUB.

Ever Ready .....per case $1 70

HOSE, GARDEN.

3 ply ¾ in. 35 lb. pressure per ft....4½c
3 " ¾ " 50 " " " 6½c
3 " ½ " 70 " " " 6½c
3 " ¾ " 70 " " " ....8 c
4 " ½ " 80 " " " ....8 c
4 " ¾ " 80 " " " ... 9½c
6 " ¾ " 125 " " " ...10½c
8 " ¾ " 150 " " " 12c
Cotton ¾ in. 75 lb. pressure per ft. 6c
" ¾ " 150 " " " 8c

HUSKERS.

Boss.
Nos..... B BB E 200
Per doz..... $2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro..... $5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro..... $3.50 9.00 24.50
Nos..... 60 59 64 68
Per doz.....$2.15 2.15 .85 1.45
Brinkerhoff's.
Per gro.....$14 40
Clark's
Nos..... 1 63 200 400
Per doz..... $0.40 .75 .75 1.75
Nos..... 200s 40s 3s 4s
Per doz..... $0.85 1.50 1.25 1.25
Nos.....A AB F
Per doz.....$3.00 $4.25 $2.50

IRON.

See Metals—First column.

IRONS.

Curling.
Common.....per doz. 33c@48c
Princess .....per doz. $0 65
Yale..... " 84
Oxford ..... " 1 15
Ruby ..... " 1 50
Tourist, Folding..... " 90
Pinking ..... " 70
Plane.
Wood Bench.....20&5¢
Stanley R. & L. Co. (new list) ...25¢
Sad.
Charcoal .....per doz. $11 00
Common, Polished, per 100 lb. 3 50
" Nickel plated, " 4 50
Chinese Polishing.....per doz. 7 40
Laundry, No. 1 ..... " 5 75
" No. 2 ..... " 6 25
Mrs. Pott's,
No. 50 J, Enterprise...per set 79c
No. 55 J, " ... " 76c
No. 50 T, " ... " 82c
No. 55 T, " ... " 79c
No. 50, Howells..... " 67c
No. 55, " ..... " 71c
Tailors' Sad.....per lb. 4½c
" Geese ..... " 4½c
Tuyere.
Single Duck Nest.....per doz. $5 25
Double " " ..... " 6 25
Sutton .....each 2 60

JACKS.

Locomotive.....75&5¢
Wagon.
Oliver.
Nos 0 00
Each..... $0.60 $0.85
Standard.
Nos..... 1
Each..... $0.60 1.00
Wilcox.
Nos..... 1 2 3
Each.....$0.85 1.20 2.90

KETTLES.

Brass.....15¢
Cauldron .....45¢
Copper.....per lb. 27c
Maslin .....70¢
Sugar .....50&5¢

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade, dz. $3 85
California.....3 40
Cooper's Hoop.....15¢
Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's ..... " 3 00
Woodford..... " 2 25
Drawing.
Standard .....70¢
Adjustable.....15¢
Barton's Carpenters'.....10¢
Folding Handle.....25&5¢
Hay.
American, Sickle Edge..doz $10 50
Canton, Sickle Edge..... " 8 25
Heath's ..... " 8 00
Iwan's Sickle Edge..... " 9 50
Iwan's Impv'd Serrated.. " 10 00
Lightn'g, Holt's Genuine " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point " 8 50
Hedge.
Challenge ....per doz. $6 00
Disston's..... " 3 75
Mincing.
Common, Single ..... " 40
" Double ..... " 50
Streeter, 4 Blade..... " 1 30
" 6 Blade..... " 2 00
Putty.
Common..... " 60@1 00
Lander's..... per doz. $1 40@1 75
Scraping.
Beech Handle .....75@1 00
Lander's.....5 25@6 00

KNOBS.

Door.
Mineral .....per doz. $0 73
Porcelain ..... " 83
Jet..... " 83

LADDERS.

Common Long.
Per ft .....9c@14c
Extension.
Per ft 12c
Step.
Common, per ft.....6½c
" with Shelf, add 10c.
Keystone.....15c
Triumph, per ft 20c

LANTERNS.

Bull's Eye Police.
3-in. Flash Light.....per doz.$6 00
2¾-in. Regular..... " 4 00
3-in. Regular..... " 5 00
Tubular.
Buhl.....40&10&5¢

LEADERS, CATTLE.

Nos 1 2 3
Per doz.....$0 55 $0 70 $2 75

LEATHER, LACE.

Cut.....40&10¢
Glaces.
Ex. Quality.....per sq. ft. 24c

LEATHERS, PUMP.

Valve and Plunger .....45¢

LIFTERS.

Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
" Nickeled. " 5 00
Ransom.
Payson's.....80¢

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos..... 4 6 7 8 9
Per gross $1 50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos..... 0 1 2 3
Per doz.....22c 25c 31c 35c
Masons', in 100-ft. hanks..doz... 80c
Clothes.
60-ft. Jute.....per doz. $0 80
72-ft. " ..... " 1 00
60-ft. Sisal ..... " 1 30
72-ft. " ..... " 2 00
50-ft. Cotton ..... " 1 00
50-ft. Braided Cotton. " 1 10

LINING, STOVE.

In Bricks.....per crate 42c

MACHINES.

Boring.	Without Augers	With Augers
Angular.....per doz.	3 00	4 40
Upright.... "	2 60	4 00

Leather Riveting.
Chicago, Pomeroy....per doz. $9 00
Excelsior ..... " 2 00
Handy ..... " 2 00
Little Giant..... " 3 00
Pony, Pomeroy..... " 7 20
Washing.
Boss 1 2 5
Per doz.....$55.20 61.80 68.40
Winner.....per doz. 54 00
Keystone ..... " 54 00
Round Wayne..... " 26 50
U. S. Steel..... " 60 00
Advance, f.o.b. Chic'go " 24 50

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small ...per doz. $5 00
" " Medium. " 5 75
" " Large... " 7 00
Round Hickory..... " 1 75
" Lignumvitæ .. " 2 85
Square Hickory..... " 1 75
" Lignumvitæ.. " 3 40
Tinners'.
Applewood ..... " 1 70
Hickory..... " 75@1 15
Hickory Sheet Iron.. " 1 30

MATS.

Door.
National Rigid.....50, 10&5¢
Queen Flexible.....50¢
Stove.
No. 2. .....per gross. $2.50
No. 1. ..... " 2.75
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. 1.00
No. 2 Asbestos Toasters, with ring.....per doz. .55

MATTOCKS.

Warwood .....70&5¢
Extra .....60¢

MAULS.

Iron. lbs. 10 13 16 1
Per doz. ...$3.75 4.25 5.00 5.35
Wood face, lbs. 10 12 14
Per doz $5.00 5.50 6.00
Wood Choppers'.
Lake Super'r & Oregon Pat.. 80&5¢

MEASURES.

	½ pk.	1 pk.	bu
Galvanized. per dz.	$2.00	$2.75	$3.60
Japanned... "	1.50	2.20	2.90

METAL.

Babbitt.
Alm .....per lb. 7½c
Best..... " 13 c
Common, No. 4..... " 6½c
Copper Mixed ..... " 19 c
Tony ..... " 9½c
See Metals—In first column.

MICA.

First Quality.....20¢
Second Quality.....20&10¢

MILLS, COFFEE.

Enterprise .....25¢
Parker.....50¢
Arcade .....50¢

MITRE BOXES.

See boxes.

MOPS.

Erie.....per doz. $3 15
Handled Cotton.
Pounds..... ¾ 1 1¼ 2
Per dozen...$2.00 2.35 2.65 3.25

MOWERS, LAWN.

Ball-Bearing.
Inches..... 14 16 18 20
Each $6.25 6.75 7.25 8.00
Cheap Grades.
Inches..... 12 14 16 18
Each $2.25 2.25 2.35 2.50
Clipper .....50, 10&10¢
Yale.
Inches..... 4 16 18 20
Each.....$3.50 3.75 4.00 4.35
Philadelphia.
All Styles Except A & E 60, 10&10¢
Style A.....50&10¢
Style E, High Wheel..60,10,10&10¢
Drevets.....50¢
All Day.....Net Price

NAILS.

Cut Steel.....rates, $2 10
Horse Shoe.
Ausable .....55&5¢
Capewell .....15¢
Perfect .....55&5¢
Putnam .....20-5¢
Star.....35&5¢
Clover Leaf..... ....per lb. net. 10½c
Picture.
Brass Heads .....33'&5¢
Judd's.....50&10¢
Brads.....85&10¢
Furniture .....50¢
Wire.
Small Lots.....$2 10
Carload " 2 00
Cement Coated..... 1 85

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized before Weav'g .80&10&5¢
" After Weaving...80&10¢
Cut Pieces.....65&5¢

NIPPERS.

End Cutting.
Stubb's Pattern. Ins. 5½ 6
Per dozen $4.00 $4.25
End and Diagonal Cutting.
Swedish Side.....75¢
Utica Drop Forge & Tool Co...60¢
Hoof.
Heller's .....40&10¢
V. & B.....55-5¢

NOZZLES.

Hose.
Genuine Gem.....per doz. $3 15
Magic..... " 3 50
Mystic..... " 2 90

NUTS, HOT PRESSED.

Square Blank.
In. ½ 5/16 ⅜ 7/16 ½ ⅝
lb. 9c 7½c 6c 5½c 4½c 4½c 4½c
Square Tapped.
In. ½ 5/16 ⅜ 7/16 ½ ⅝ ¾
lb. 12c 10c 7½c 6½c 6½c 5½c 5½c
For 5 lb. boxes add ½c per lb. to above prices.

OILERS.

Chase Pattern.
Brass and Copper.....60&10&5¢
Zinc .....60&5¢
Engineers'
Cannon .....55¢
Tin.....per doz. $2.00@$2.25
Machine.
Common .....per doz. $0 50
Copper Plated Steel.. " 85
Malleable Iron.....60, 10&5¢
Jappaned..... .....65@75c

OPENERS.

Box.
Inches..... 10 12 14
Flat ..per doz $2.85 3.60 4.15
Round " 2.10 2.25 2.75
Can.
Delmonico.....per doz. $1 30
Never Slip..... " 0 65
rate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Home.....per doz. $11 50
Economy..... " 4 20
Fireside..... " 10 00

PADLOCKS.

Standard Wrought .....75&10¢
Champion .....50¢
Eureka.....40, 10&5¢
Yale .....60&5¢

PAILS.

Cream.
14-qt., without Ga....per doz. $2 50
20-qt., " " .... " 3 00
20-qt., with Gauge.... " 3 50
Sap.
10-qt., Galvanized.....per doz. 1 60
12-qt., " ..... " 1 85
Stock
Galvd. qts. 14 16 18 20
Per doz.....$3.50 3.75 4.50 5.00
Water.
Galvanized, qts 10 12 14
Per doz $1 60 1.85 2.10
Wood.
Cable, 2-Hoop..... .per doz. $1 70
" 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop..... " 1 60
" 3-Hoop..... " 1 80

PANS.

Dripping.....60&5¢
Fry.
Common.....75&10¢
Acme .....70¢
Roasting.
Paxton.
Nos..... 1 2 3 4
Per doz. $4.75 $5.75 $6 50 $7.50
Neverburn.. 4.00 4.50 5.50 6.50
Savory No. 200 .....per doz 8.50

PAPER.

Building.
Plain .....per 100 lbs. $1 10
Tarred..... " 1 20
Tarred Felt..... " 1 65
No. 20, Red Rosin .....pr roll 40
No. 30, Red Rosin ..... " 55
Sand and Emery.
Challenge.....50&10¢
B. & A.....50¢
Wrapping
Drab Floer.....per lb. 3¾
Rag..... " 2¾

PARERS.

Apple.
Bay State.....per doz. $13 00
Turntable ..... " 6 00
White Mountain .... " 4 75
Reading ..... " 6 50
Potato.
Goodsell's Saratoga 10½ in. doz. 6 50
" " 5 in.. " 5 50

PICKS.

Adze Eye Ore .....70¢
Drifting and Poll Picks.....70¢
Extra Railroad .....70&5¢
Surface.....65&5¢

PINCERS.

Carpenters', cast steel.

In.	6	8	10	12
Per doz.	$1 80	$2 40	$2 80	$3 50

Blacksmith's .....45¢
Heller's .....40¢

PINS.

Clothes.
Common.....per box of 5 gro. $0 48
Hoyt's..... " " 81
U. S..... " " 70
Picket.
Fluted 15 in.....per doz. $0 70
" 21 in..... " 1 60
Spiral ..... " 1 90

PIPE.

Conductor.
Territory.
Eastern.....70&10¢
Central.....70&2½¢
Southern .....65&10¢
Western.....65&10¢
Southwestern.....60&12½¢
Lead.
Full coils.....per ℔. 7½c
Cut " ..... " 7¾c
Stove.
Acme—In. 5 6 7
Smooth, per jt.. 8½c 9½c 10½c
Planished " .. 32 c 33 c 43c
Peerless—Smooth. 7½c 8 c 9½c
Polished 14½c 15½c 18c
Plan'hed 28 c 31 c 35½c
Made-up—In. 5 6 7
Smooth 7½c 8c 9½c
7 to 6 in. Smooth Tapers, pr jt..13c
6 in. Smooth T's..... " ..27c
7 to 6 in. Planished Tapers.....45c
Yale Patent Lock Pipe—Stove.

	5"	5½&6"	7"	7 to 6"
	—Cents—			
Battle Ax Blue Smooth Steel.	6	6½	7½	8
Double Lock Peerless Blue Smooth Steel.	6¾	7¼	8¼	8¾
Can't Slip Blue Smooth Steel.	6¾	7¼	8¼	8¾
Duplex Polish'd Blue Smooth Steel.....	8¾	9½	10½	10¾
Yale Russia Fin	15½	16½	17½	17¾
Plan'h'd Duplex	29½	30½	37	38
Galvano, Galvanized Iron..	15	16	17	17½

If wanted made up, add per joint for grooved, 1c; riveted, 1½c. Crating made-up pipe extra.

Wrought Iron Gas Pipe
⅛@¼-in., black.....discount, 60¢
⅜@½-in. ..... " 60,10&5¢
¾-in. to 6-in.. black... " 70¢
7 " 12 " .. " 62½¢
⅛@¼ galvanized " 42¢
⅜@½ " " 50¢
¾ " 6 " " 57½¢
7 " 12 " " 45¢

PLANES.

Sargent Iron Bench.....60&10¢
Stanley Iron Bench.....25&10&5¢

PLANTERS.

Corn.
Monitor.....per doz..$7 75
Triumph..... " .. 6 00
Segment..... " .. 9 00
Potato.
Acme.....per doz..$6 25
Challenge..... " ..11 00
Pingree..... " .. 2 25
Eureka ..... " .. 6 25

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Button's—In. 4½ 6 8 10
Per doz.....$2.75 $3.35 $4.15 $5.15
Button's Pattern.
In. 4½ 6 8 10
Per doz.....$2.15 $2.40 $2.90 $3.75
Cutting.
Bernard's.....30¢
Lodi.....50¢
End and Diagonal Cutting.
Swedish Side .....70¢
Utica Drop Forge & Tool Co....50¢
Fencing.
Farmers' Choice....per doz ..$8 00
Russell's..... " .. 8 25
Flat and Round Nose.
Bernard's.....30¢
German .....65¢
Lodi.....50¢
Paragon.....50¢
Gas—In. 6 8 10 12
Per doz...$2.35 $3.00 $4.00 $5.00

Tinner's.
Hollow.....40¢
Solid.....each..5½c

PLUMBS AND LEVELS.

Common.....70&10¢
Cook's.....40¢
Davis' Iron.....25¢
Davis' Inclinometer.....15¢
Stanley's.

Nos.	00	0	2	3
Per doz..	$4.50	$5.00	$7.35	$8.40
Nos.	30	25	50	35
Per doz.	$12.00	$17.00	$17.00	$12.00

POINTS.

Drive Well Points.....75&10¢

POKERS—STOVE.

Wr't Steel, str't or bent, pr doz.$0.55
Wr't Steel, wood hand'ls " " .80
Nickel pl'td, coil hdl's.. " " .65

POKES—ANIMAL.

Brown's, wr't steel, per doz.$5.00@6.00

POLISH.

Metal.
Pride of the Bar.....$1.60
Putz Cream.

Pts.	1-6	¼	½
Per doz.....	$0.80	$1.10	$1.65

Pts.	1	2	4	8
Per doz	$2 75	$4.50	$7.50	$12.50

White Silk half pints, per doz.$2.00
White Silk, 6 oz. cans, per doz. 1.00
Wondershine

Pts.	1-6	½	1	2
Per doz.....	$0.70	$1.35	$2.25	$3.00

George William Hoffman.
U. S. Metal Polish Paste, 3 oz. boxes, per doz., 50c; pr. gro ..$4.55
½-lb. boxes, per doz..... 1.20
1-lb. boxes, per doz..... 2.25
U. S. Liquid, 8 oz. cans, per doz., $1.25; per gro.....12.00
Barkeepers' Friend Metal Polish, per doz., $1.75; per gro..18.00
Shoe.
M. D. C.....per doz. 36c@50c
F. C. O..... " 40c
T. M..... " 55c@$1.75
Imperial.....per gr.....$5.00
Stove.
Black Eagle, 1 ℔ cans. pr gr..$15.00
Black Silk—
5 ℔. pail.....$0 70
Paste, 5 oz. cans....per doz. 75
Paste, ½ lb. cans.... " 1 00
Liquid, ½ pint cans..per doz $1 00
Liquid, 6 oz. cans... " 75
Steel Range Gloss.... " 1 75
Blackene, 1 ℔ cans....pr gro. 18 00
Black Jack, ½ ℔ cans.. " 9 25
Dixon's Carb. of Iron.. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1 qt. per dz, ..$ 95
Square, 1½ qt..... " 1 10
Square, 2 qt..... " 1 25
2 qt. Reversible..... " 1 60

POTS, FIRE.

Bernz.....each $3 85
Clayton & Lambert's, ea..$4 75@6 25
Gate City.....each 6 25
Gem.....ea..$6 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co....25¢
Henis .....per doz. $1 85

PRIMERS.

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10¢
Water's Improved..... " 80¢

PULLERS.

Cork.
Daisy.....each $3 10
Phoenix..... " 1 40
Quick and Easy..... " 2 70
Nail.
Giant.....per doz..$10 50
Giant Pattern..... " .. 6 00
Jumbo ..... " .. 9 00
Tack—Giant ..... " .. 40

PULLEYS.

Awning—Jap'd.....60¢
Clothes Line.....50&10¢
Hay Fork.
Iron Wheel, 5 in.....per doz. $1 75
Wood Wheel, 6 in.... " 1 75
Wood Wheel, 6 in., pass knot..... " 2 15
Hot House—Jap'd .....50&10¢
Screw..... " .....60¢
Side ..... " .....50&10¢
Sash.
Clark's .....per doz $0 36
Common Sense, 2 in.. " 22
" Pattern, 2 in.. " 30
Empire..... " 20
Ideal..... " 20
Steel..... " 25

PUMPS

Pitcher Spout.

Nos.	1	2	3	4
Each	$.93	1.05	1.17	1.45

Spray.
Blizzard.....per doz. $14 50
Cyclone, tin..... " 3 40
" copper ..... " 6 75
Daisy..... " 9 00
Little Giant.....each 2 25

PUNCHES.

Conductors'.
No. 22.....per doz. $2 25
Machine.....per ℔. 19
Saddlers'.
Common.....per doz. 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 ℔s. 2 35

RAIL.

Barn Door.
Crescent T..... 4½c
Double Flange..... 2½c
Matchless, 1 in..... 3c
Matchless, 1½ in..... 3½c
Storm King..... 4c
World's Best 7c
Sliding Door.
Painted steel.....per ft. 4½c
Bronzed wrought iron... " 8½c

RAKES.

Coal or Wood.....per doz. $5.20
Garden.
Steel.....75&10¢
Steel, bow.....75&7½¢
Malleable Iron, heavy.....70&10¢
Hay.
Wood.....$1.50@$2 00
Lawn—Wood.
XXX .....per doz. 3 00
Automatic ..... " 6 00
Hustler ..... " 3 50
Jumbo, 36 teeth..... " 6 00

RASPS—See Files.

RAZORS.

Bo-ras-ic .....50¢
Red Devil.....50¢
Tree Brand.....50¢

REGISTERS.

List December 5, 1904.

Black and White Japanned.....70¢
Nickel Plated.....70¢
Electroplated, Brass, Bronze or Copper.....70¢

RINGS

Bull.

	2½ in	3 in.
Copper.....		
Per doz.....	$1.10	$1.35
Rea's Impro'd Self Piercing copper, pr d'z.	1.85	
Steel per doz..	.85	.95
Nickel Plated	1.35	...

and Ringers—Hog.
Blair's Rings.....per doz. $0 58
Blair's Ringers..... " 75
Brown's Rings..... " 50
Brown's Ringers..... " 80
Champion Ringers... " 1 60
Hill's Ringers..... " 70
Hill's Ring, boxes..... " 47
Major Rings ..... " 60
Perfect Ringers..... " 95
Wolverine Rings..... " 1 40
Wolverine Ringers... " 80
Fruit Jar.
White.....per ℔ 30c
Key.
Split, round.....per doz. 17c
Split, square..... " 33c
Ball, Round..... " 33c

RIVETS.

and Burrs.
Copper Belt .....33½&5¢
Coppered Iron .....75¢
Tinners' .....70¢
Hame .....per ℔. $0 10
Slotted Clinch.....per doz. 40c@45c
Tubular.
Nos. 1 and 2 assorted sizes, doz. 45c

RIVET SETS.

See Sets.

ROPE.

Cotton.
¼, 5-16-in. Com. on reels..per ℔. 11½c
¼, 5-16-in. Com. in coils .. " 12c
¼, 5-16 Imperial in coils . " 21c
Sisal.
Rates.....10½c
Premier, rates .....per ℔. 8½c
Pure Manila.
Rates..... " 13½c
Premier, rates ..... " 12½c

RULES.

Boxwood.....60&5¢
Ivory .....45&5¢

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Atkins'.....40¢
Disston's .....30&5¢
Jackson's.....30&5¢
Butchers'.
Atkins' Nos. 1, 2, 3, 5, 7..... ..40¢
Atkins' Nos. 77, 78.....60¢
Atkins' No. 79.....50&5¢
Disston's.....40&5¢
Circular.
Atkins'.....50¢
Disston's.....50¢
Hiles'.....50&10¢
Compass.
Atkins' Nos. 2 & 3 .....40¢
Atkins' Nos. 4 & 5.....40&10¢
Common.....per doz. $1.35@$1.60
Disston's.....25&7½¢
Cross-Cut.
Atkins'.....35&40¢
Disston's.....40&10¢&50¢
Dehorning.
Atkins'.....per doz. $5 50
Disston's..... " 5 75
Hack.
Atkins'.....40¢
Disston's.....25¢
Keystone.....30¢
Hand and Rip.
Atkins'.....40¢
Brown's .....30&7½¢
Disston's No. 7.....30&10¢
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120 (new list) 25&10¢
Keystone.....35&5¢
Enterprise, hand.....per doz. $5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50
Keyhole—Disston's.....30&5¢
Atkins' No. 5.....40&10¢
Atkins' No. 6.....40¢
Kitchen.
Atkins'.....50&10¢
Sterling.....25¢
One Man .....50¢
Panel.
Atkins'.....40&10¢
Brown's.....30&7½¢
Disston's No. 7.....35&5¢
Disston's No. D100.....30&5¢
Pruning.
Atkins' Nos. 1, 2 & 3.....35¢
Atkins' Nos. 5, 6 & 7.....40¢
Brown's.....25&7½¢
Disston's.....30&5¢
Wood.
Atkins'.....40&10¢
Common.....per doz. $4 50
Clover Leaf..... " 6 50
No. 44 Bishop..... " 6 50
Perfection ..... " 8 00
Crescent..... " 5 00

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools.

SAW FRAMES.

Common, plain.....per doz. $1 25
" painted.... " 1 70

SCALES.

Counter.
Pelouze..... .....40&10¢
Platform.
Osgood.....50¢

SCOOPS.

Grain.
½ Bu. "Hercules,"..per doz. $13 75
1 " " " 15 00

SCRAPERS.

Box.
Stanley's Adjustable, per doz.$3 00
Triangular..... " 4 00
Cabinet.
Cast Steel..... " 60c@75c
Stanley's No. 80..... " $7 80
Road.

Cubic ft.	7	5	3
Without runners, ea.	$4.00	3.75	3.50
With runners.... "	4.25	4.00	3.75

SCREWS.

Bench.

Iron, in,	1	1½	1¾
	$3.25	$3.75	$4.50

Wood, white maple..per doz. $3 50
Hand—Wood.....30&5¢
Hand Rail.....80&10¢
Jack .....70&10&10¢
Lag or Coach—all sizes, gimlet pointed.....75&5¢
Saw—Centennial.

Nos.	1	2	3	4	5	6
Per doz.	18c	20c	26c	30c	23c	25c

Wood.
F. H. Bright.....87½&10&5¢
R. H. Blued..... 85&10¢
F. H. Jap'd..... 82½&10¢
F. H. Brass..... 85&10¢
R. H. Brass..... 80&10¢
R. H. Nickel Plated.....80¢

SCYTHES.

Clipper, grain.....per doz. $9 50
Clipper, grass ..... " 6 75
Vulcan ..... " 6 50
Honest Dutchman..... " 6 50
Be Ve B..... " 6 00

SHAVING SETS.

Smith & Hemenway.....60%

SETS.

Nail.
Round, common.....per doz. $0 33
Square, " ..... " 42
Octagon " ..... " 33
No. 5 Square,..... " 75
Cup Point, knurled, pr. doz..... 75
Rivet.
Farmers'.. .....per doz. $1 20
Tinners'.....50&10%
Saw.
Aiken's Pattern.....per doz. $3 50
Common Lever..... " 1 20
Disston's Monarch... " 6 50
" X Cut..... " 12 00
German ..... " 1 05
Morrill's Old Style... " 5 00
" Pattern.... " 3 25
Leach's..... " 4 80
Nash's Hand..... " 3 15
" X Cut..... " 4 20
Stillman's Lever..... " 1 30
" X Cut..... " 2 50

SHARPENERS, SKATE.

Diamond.....per doz. $1 60
Smith & Hemenway.....20%

SHAVES, SPOKE.

Iron.....per doz. $1.10@$1.85
Wood..... " " 2.75@ 4.75
Bailey's.....50&5%
Goodell's.....15%
Stanley's Universal.....30&5%

SHEARS.

Pruning.
Buckeye, No. 1.....per doz. $5 75
" No. 2..... " 7 40
California Pat.. 9 in.. " 3 20
" " 10 in.. " 4 00
Draw Cut, No. 3..... " 13 75
" " No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 $2.10 $2.90 $2.80
Star.....per doz. $4.00
Sheep—No. BBA.
Inches..... 6 6½ 7
Reg. Grip..... $11.25 $11.50 $12.00
Nar. Grip, doz. 11.00 11.25 12.25
Tinners'—See Snips.

SHEAVES, SLIDING DOOR.

Common.
Inches..... 3 4 5
Per set..... $0.34 $0.42 $0.70
Hatfield's.
Per set..... .75 1.00 1.60

SHELLS—See Ammunition.

SHELLERS, CORN.

Union..... per doz. $6.75

SHIELDS.

Expansion Bolt Shields.....50&10%

SHOES.

Conductor .....60&10%

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.

Coal.
No. 2 Woodford .....per doz. $5 50
No 182. ..... " 6 00
Ames' new list.....Discount 12½%
Per Doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye .... " " " 10 00
Mohawk.... " " " 9 00
Drain.
Iwan's Perfection.....50%
Railroad, Etc.
Black Diamond.....per doz $10 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ames' new list.....Discount 12½%
Snow.
Per doz.....$1.65@$9.00
Atlasta Steel.
D Handle.....per doz. $3 50
Long Handle..... " 3 00

SINKS.

Cast Iron.
Painted.....60%
Enameled, White.....60%
Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.

Champion.....33⅓%
German Pattern.....30&5%
Judd's Pattern.....50%

SNATHS.

Double Ring, Bush.....per doz. $6 50
Patent Loop " ..... " 6 00
" " Grass..... " 5 75

SNIPS, TINNERS'.

Wiss.....40&10%
National.....40&10%

SOLDER—See Metals.

SPRINGS, DOOR.

Perfect.
Nos..... 1 2 3 4
Per doz.... 30c 35c 40c 45c

Reliance.
Per doz.....light $1.25; heavy $2 50
Star.
Per doz..... light 90c; heavy $1 85
Torrey's.....per doz. $1 35
Warner's No..... 11 13
Per doz..... 75c $1.35

SQUARES.

Steel and Iron..... ... .75%
(Add for Bluing, $2.50 per doz., net)
Mitre.
Stanley's No. 12 ... .60%
Try.
Stanley's No. 20, new list. .45&10%
" No. 12 and 14.....55%
Try and Bevel.
Stanley's..... .....55&5%
Try and Miter.
Fox's..... .....per doz. $5.75
Winterbottom's 70%

SQUEEZERS, LEMON.

Common Wood.....per doz $0 70
Porcelain Lined, Wood. " 1 25
Boss, malleable iron.... " 75
Iron Frame, p'rel'n bowl " 2 25
" glass bowl... " 2 50
Little Giant, tin'd iron. " 4 00
Drum, japanned..... " 3 60
Drum, nickel plated.... " 4 50

STAPLES.

Blind.
Barbed.....per lb 9¼@9½c
Butter Tub..... " 8@8½
Fence—less than carload.
Polished.....per 100 lb $2 30
Galvanized ..... " 2 60
Netting.
Galvanized.....per 100 lb 4 00
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....85&10%
Extra heavy.....85%

STEELYARD.

Discount 30%

STONES.

Axe.
Hindostan.....per lb 5½@7c
More Grit ..... " 9½c
Washita..... " 17 c
Emery.....60%@60&5%
Oil—Mounted.
Arkansas Hard.....per doz. $23 00
Arkansas Soft..... " 15 50
Hindostan .....per lb 6½@6½
Oil—Unmounted.
Arkansas Hard.....per lb $2 05
Arkansas Soft..... " 1 10
Lilly White..... " 45
Queer Creek..... " 15
Ouachita ..... " 38
Washita ..... " 26
Sythe.
Black Diamond.....per gro. $8 00
Crescent ..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille..... " 7 00
Quinnebog..... " 5 00
Red End..... " 3 75

STOPS, BENCH.

Hotchkiss'..... .....per doz. $3 50
Stearns'..... " 4 75

STOPPERS, FLUE.

Common.....per doz. $0 40
Crown..... " 45
Gem, flat, painted..... " 85
Gem, cor'd, decorated.. " 70
Kirch's..... " 90
Perfect ..... " 70@85
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards.

STOVE POLISH—See Polish.

STRAPS.

Scoop.....per doz. prs. $1 85
Skate..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's.....per doz. $3 90
Exelsior ..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 30
King..... " 4 50
Wire.
N. S. Elwood's..... " 6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety ..... " 10 00
Star Lever..... " 6 25
Canton Tackle Block. " 9 50
Warner's ..... " 6 25

SWIVELS.

Malleable Iron.....per lb 07
Wrought Steel.....per gro. $4 50

TACKS.

American Cut.....90&20%
American Wire.....85&25&10%
Bill Posters Cut .....90&20%
Blued Carpet.....90&10%
Tinned Carpet.....90&10%
Gimp.....90&10%
Upholsters' Cut .....90&33⅓%
Upholsters Wire.....90&10%
Double Pointed.....90&20%
Copper.....per lb 32c
Canvas Nails.....75&5%
Clout Nails .....75&5%
Hungarian Nails.....80&5%

TAPES, MEASURING.

Asses' Skin.....40&10%
Bend Leather.....20%
Patent Leather.....20%
Lufkin's Steel.....25%
Lufkin's, Metallic.....30%

TEE BEVELS—See Bevels.

THERMOMETERS.

Tin Case.....per doz. 80c@$1 25
Wood Back..... " $2.00@12 00
Glass..... " 12 00

TIES.

Bale.
Single Loop.....80&10%
All other kinds.....70%
Cow—See "Chains."

TOOLS, SAW.

Atkins' Dexter.....per doz. $4 50
Atkins' Excelsior..... " 6 50
Disston's Universal.....40%
Minature.
Smith & Hemenway.....25%

TRAPS.

Fly.
Balloon.....per doz. $1 15
Harper's..... " 1 25
Game.
Newhouse.....40&10%
New Victor.....70&10%
Mole.
Reddick's.....per doz. $6 00
Mouse and Rat.
Wood Choker...per doz. holes $0 10
Tin Choker..... " " 10
Delusion.....per doz. 4 00
Marty Rat..... " 6 00
Marty Rat Imitation.. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 00

TROWELS.

Brick.
Clover Leaf.....40%
Brade's.....15&5%
Disston's.....30%
Rose's.....25%
Plasterers.
Clover Leaf.....40%
Disston's.....25%
W. & McP.....25%

TRUCKS.

Bag.....each $2 75
Handy..... " 1 85
Warehouse.....50&10%
No..... 1 2 3
Half Ironed.... $3.00 $3.85 $5.50
Full Ironed.... 3.45 4.50 6.45

TUBS, WASH.

Standard. Ex.
Nos..... 3 2 1 large
Per doz....$5.00 $6.00 $7.00 $ 9.50
Dowell.
Per doz.... 5.35 6.35 7.00 9.50
Cedar.
Per doz.... 6.10 7.10 7.90 10 80
Indurated.
Per doz.... 8.55 9.45 10.80 13.50
Galvanized.
No..... 1 2 3
Per doz.....$4.85 $5.75 $6.50

TWINE.

Per lb
3-ply Cotton Wrapping.....25c
4 " " " 25c
4 " " Extra Wrapping.....27c
4 " " " Hvy. Wrapping..25c
4 " " Wrapping on tubes...27c
3 " " " cones...25c
4 " " " " " ...25c
India Hemp, ¼-lb. balls.....17c
" " ½-lb. " 16c
" " ¼-lb. " .....doz. 63c
2-ply " ½-lb. " 11c
3-ply " ½-lb. " 10c
Jute Wrapping, ½-lb. balls.....14c
Jute Wool, 1-lb. balls.....8½c
Seine.
Nos..... 9 12 15+
Soft.....per lb 26½ 26 25
Med..... " 26½ 26 25
Hard .... " 27 26½ 26
Staging, ½ lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " " 23c
3-ply "B" in hanks.....18c
4 " "B" " 18c
3 " "A" " 27c
3 " Silver Finish, in hanks....37c
Fodder or Lath.
130-strand 6½c
200 strand. 7½c

VISES.

Phoenix.....35%
Cheney's 20%
Parker's Oval Slide.....50, 10&2½
Sargent's Oval Slide,
In. 2½ 3 3½ 4
Ea. $1 00 $1 25 $1 65 $2 00
Parker's Parallel.....18&20%
Parker's Victor.....15%
Parker's Combination.....75%
Solid Box.....50%
Adam's Mechanics'.....each 2 50
Williamson Universal 60%

WARE.

Stove Hollow Ware.
Plain or Unground 60%
Ground Ware.....50&10%
Enameled Ware.....50%
Country Hollow Ware, per 100 lbs $2.75
White Enameled Ware.
Maslin Kettles.....60&10&10&5%
Covered Ware, Tinned and Turn'd. 40%
Enameled 50%
Glue Pots, Tinned.....30%
Enameled.....35%
Enameled.
Cherry Blossom and Chrysolite. 50%

WASH BOARDS—See Boards.

WASHERS.

Standard O. G. cast iron...per lb. 2½c
Wrought iron in bulk per lb.:
In. ⅜ ½ ⅝ ¾ ⅞ 1 1¼
9c 6½c 5c 4½c 4½c 4½c 3½c
Wrought steel in 5 lb. boxes, per lb.
In. ⅜ ½ ⅝ ¾ ⅞ 1
10c 7c 6c 5½c 5c 5c 4½c

WASHING MACHINES—See Machines.

WEDGES.

Ax.....per doz....30
Galling .....per lb 10½
Saw ..... " 8½

WEANERS.

Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 60

WEIGHTS.

Hitching .....per lb 2½c
Sash—F.O.B. Chicago...pr ton $24 50

WHEEL BARROWS.

Common Railroad....per doz..$15 50
Heavy " .... " .. 20 00
Panama Steel Tray " .. 35 00
Klondike " " .. 23 50
No. C4 Tubular " 43 Bryan..each 4 60
No. C5 " " 45 " " 5 25

WHEELS.

Corundum .....70&10&5%
Emery .....75&5%
Well In. 8 10 12 14
Per doz.....$2.10 $2.50 $3.15 $5.00

WIRE.

Barbed Painted. Galv'd.
Carloads..per 100 lbs..$2.30 $2.60
Less than car " .. 2.35 2.65
Brass.
In coils.....20%
In 1 lb spools, new list.....50&10%
Broom—Tinned.....60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%33⅓%
In 1 lb spools, new list .... 50&10%
Fence—Smooth.
Nos. 6 to 9, An'eal'd, pr 100 lbs. $2.10
Nos. 6 to 9, Galvl'd... " 2.40
Hair—New list.....50&10%
Market.
Bright, full bdles.....70&10%
Bright, broken bdles.....70%
Coppered, full bdles 70%
Coppered, broken bdles.....65&10%
Tinned, full bdles.....70&5%
Tinned, broken bdles.....65&10%
Picture—In coils.....80%@80&10%
In 5 lb. spools. .....per lb..26c
Plain—Small lots..... $2.10
Car lots 2.05
Small spools 5c per hundred higher.

WRENCHES.

Acme Standard.....60%
Alligator No. 1.....85c net
Always Ready.....50&10%
Bemis & Call No. 2 Improved Pipe Wrenches 80%
Coe's Standard.....40&10&5%
Agricultural.....75&10%
Ellis Adjustable.....25%
Malleable "S".....per lb. 06c
Malleable..... " 06c
Stillson Pipe 70%
Trimo " .....65&10%

WRINGERS.

No. 22, Guarantee....per doz.$32 50
No. 110, Guarantee.... " 32 50
No. 110, Brighton..... " 33 50
No. 110, Bicycle ..... " 31 50
No. 500, Royal . ..... " 32 50
No. 350, Universal..... " 28 00
No. 300, Novelty..... " 28 00
No. 310, Keystone ..... " 28 00
No. 100, Rival..... " 23 50
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Star Expansion Bolt Co., New York, N.Y

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Plume & Atwood Mfg. Co., Chicago

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Roseland Can & Specialty Co., Rockford, Ill
Stuber & Kuck, Peoria Ill

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Grand Rapids Hand Screw Co., Grand Rapids, Mich

Carpenters' Tools

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Gillette Sales Co., New York, N. Y
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Cooney & Geiger, Indianapolis, Ind
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Dampers

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Star Enameling and Stamping Co., Pittsburgh, Pa

Enameling and Stamping Plants

Vollkommer & Co., Pittsburg

Engineers & Contractors

Vollkommer & Co., Pittsburg

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Stevens, J. Arms & Tool Co., Chicopee, Falls, Mass

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Barnett, C. M., Decatur, Ill
Beckwith, Estate, P. D. Dowagiac, Mich
Boynton Furn. Co., New York & Chicago
Detroit Heating & Lighting Co., Detroit, Mich
Forest City Fdy. & Mfg. Co., Cleveland, O
Graff Furnace Co., New York
Green Fdy. & Furn. Wks., Des Moines, Ia
Haynes-Langenberg Mfg Co., St. Louis
Henry & Scheible Co., Cleveland, O
Hess, Snyder Co., Massilon, O
Kelsey Heating Co., Syracuse, N. Y
Magee Furnace Co., Boston
Mannen & Esterly Co., Cleveland, O
March-Brownbach Stove Co., Pottstown, Pa
Meyer Furnace Co., Peoria, Ill
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Richardson & Boynton Co., Chicago
Robinson Furnace Co., Chicago
Schwab, R. J. & Sons Co., Milwaukee, Wis
Stanton Heater Co., Martin's Ferry, O
Stove & Range Co., (The) of Pittsburgh, Pittsburgh, Pa
Thatcher Furnace Co., New York, N.Y
Walworth Run Fdy Co., Cleveland, O
Youngstown Furn. & Supply Co., Youngstown, O

Furnace Pipe and Fittings

Green Fdy. & Furn. Wks., Des Moines, Ia
Meyer F. Bros. & Co., Peoria, Ill
Michigan Safety Furnace Pipe Co., Detroit, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis

Gas Appliances

Adler, H. Co., Carnegie, Pa

Hand Screws

Grand Rapids Hand Screw Co., Grand Rapids, Mich

Hand Punching Machines

American Lock Nut Co., Oregon, Ill

Hangers—Door

Grafton Mfg. Co., Erie, Pa.
Richards Mfg. Co., Aurora, Ill
Safety Door Hanger Co., Ashland, O

Hangers—Garment

Pullman Mfg. Co., Rochester, N.Y

Hardware Jobbers

Clark, Quien & Morse, Peoria
Paxton & Gallagher Co., Omaha

Hardware Specialties

Bishop, G. E., Dowagiac, Mich.
Carver File Co., Philadelphia, Pa
Enterprise Mfg. Co. of Pa., Philadelphia, Pa
Kees Mfg. Co., Beatrice, Neb
Peck, C. A., Hdw. Co., Berlin, Wis
Pullman Mfg. Co., Rochester, N. Y
Roseland Can & Spec. Co., Rockford, Ill
Taylor & Boggis Fdy. Co., Cleveland, O

Heater Combination

Smith, Chas., Co., Chicago
Stolz, F. D., Chicago, Ill

Heating

Quaker Mfg. Co., Chicago

Hinges

Griffin Mfg. Co., Erie, Pa
Kees Mfg. Co., Beatrice, Neb

Hollow Ware

Avery Stamping Co., Cleveland, O
Sperry, D. R. & Co., Batavia, Ill

Ice Cream Freezers

North Bros. Mfg Co., Philadelphia, Pa
Richmond Cedar Wks., Richmond, Va

Industrial Plants

Vollkommer & Co., Pittsburgh, Pa

Iron Fence

Stewart Iron Works, Cincinnati, O

Kitchen Utensils

Avery Stamping Co., Cleveland, O

Ladders—Shelf

Calander, John, St. Paul, Minn

Levels

Baker-McMillen Co., Akron, O
Davis & Cook, Watertown, N. Y
Stanley Rule & Level Co., New Britain, Ct

Lighting Systems

Ideal Epworth Acetylene Co., Johnstown, Pa.

Lightning Rods

Security Lightning Rod Co., Burlington, Wis
Maher & Son, Preston, Iowa

Locks

Yale & Towne Mfg. Co., New York, N.Y

Mail Boxes

Blick-Williams Co., Indianapolis, Ind
Peck, C. A. Hdw. Co., Berlin, Wis
Signal Mail Box Co., Joliet, Ill
Smith Bros. Mfg. Co., Chicago, Ill

Metal Lath

Wheeling Corrugat'g Co., Wheeling, W.Va

Metal—Perforated

Harrington & King Perforating Co., Chicago, Ill

Metal Polish

A-B Stove Polish Co., Chicago
Hartman, Geo. W., Indianapolis, Ind

Metal Shingles

Burton, W. J. Co., Detroit, Mich
Edwards Mfg. Co., Cincinnati, O
Cortright Metal Roofing Co., Philadelphia
Nat'l Sheet Metal Roof. Co., Jersey City
Wheeling Corrugating Co., Wheeling, W. Va

Miters

Whitacre, J. E. Mfg. Co., Rockford, Ill

Mop Wringers

Eagle Cooperage Wks., Circleville, O

Nails and Tacks—Copper

Hungerford, U. T., Brass & Copper Co., New York
Standard Horse Nail Co., New Brighton, Pa

Nuts

American Lock Nut Co., Oregon, Ill
Columbus Bolt Works, Columbus, O
Garland Nut & Rivet Co., Pittsburgh, Pa

Oil Heaters

Barler, A. C. Mfg. Co., Chicago

Paints

Connors, Wm., Paint Mfg. Co., St. Louis
Dixon, Jos. Crucible Co., Jersey City, N. J
Enterprise Paint Mfg. Co., Chicago

Pencils

Dixon, Jos. Crucible Co., Jersey City, N.J

Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Photograph Clips

U. S. Clothes Pin Co., Montpelier, Vt

Pistols

Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Planes

Stanley Rule & Level Co., New Britain, Ct

Pumps

Beckman Bros., Des Moines, Ia
Berger Mfg. Co., Canton, O
Hess-Snyder Co., Massillon, O

Punches

American Lock Nut Co., Oregon, Ill
Bertsch & Co., Cambridge City, Ind
Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Radiators

Rochester Radiator Co., Rochester N.Y

Rasps

Disston, Henry & Sons, Philadelphia, Pa

Razors

Gillette Sales Co., Times Bldg., New York City
Smith & Hemenway Co., New York

Registers

Auer Register Co., New York
Ferrosteel Co., Cleveland, O
Henry & Scheible Co., Cleveland, O
Independent Register Co., Cleveland, O
Mueller, L. J., Furn. Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis
Standard Register Co., Cleveland, O

Rifles

Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Rivets

Hungerford, U. T., Brass & Copper Co., New York, N. Y

Roofing

H. W. Johns-Manville Co., New York, N.Y
Kanneberg Roofing & Ceiling Co., New York

Roofing—Asphalt

Stowell Mfg. Co., Jersey City, N.J

Roofing—Iron and Steel

Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Edwards Mfg. Co., Cincinnati, O
Eller Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Friedley & Voshardt, Chicago, Ill
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City
Niles Corrugating Co., Niles, O
Schoedinger, F. O., Columbus, O

Roofing Cement

Garry Iron & Steel Co., Cleveland, O

Roof Paint

Dixon, Jos. Crucible Co., Jersey City, N.J
Garry Iron & Steel Co., Cleveland, O

Rules

Lufkin Rule Co., Saginaw, Mich
Stanley Rule & Level Co., New Britain, Ct

Sash Balances

Pullman Mfg. Co., Rochester, N.Y

Sash Chain, Ribbon & Wire Cord

Pullman Mfg. Co. Rochester, N.Y

Saws and Saw Sets

Disston, Henry & Sons, Philadelphia, Pa
Goodell-Pratt, Greenfield, Mass

Scales

Beckman Bros., Des Moines, Ia

Screens—Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Screen Door Checks

Pullman Mfg. Co., Rochester, N. Y

Screens—Radiator

Harrington & King Perforating Co. Chicago, Ill

Screws

Columbus Bolt Works, Columbus, O

Screw Drivers

North Bros. Mfg. Co. Philadelphia, Pa

Scuttle Openers

Bickelhaupt, G., Skylight Works, New York, N. Y

Seamless Tubing—Brass & Copper

Hungerford, U. T., Brass & Copper Co., New York

Settees—Iron

Stewart Iron Works, Cincinnati, O

Shears

Bertsch & Co., Cambridge City, Ind

Shears—Sheet Metal

Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Sheets—Black and Galvanized

Berger Mfg. Co., Canton, O
Parkersburg Iron & Steel Co., Parkersburg, W. Va
Wheeling Corrugat'g Co., Wheeling, W.Va

Sheets—Planished

Ward-Dickey Steel Co., Indiana Harbor, Ind

Sheets—Steel

American Sheet & Tin Plate Co. Pittsburgh, Pa
Parkersburg Iron & Steel Co., Parkersburg, W. Va
Ward-Dickey Steel Co., Chicago, Ill

Shot Guns

Stevens J., Arms & Tool Co., Chicopee Falls, Mass

Shovels

Avery Stamping Co., Cleveland, O

Sifters

Stuber & Kuck, Peoria, Ill

Skylights

Edwards Mfg. Co., Cincinnati, O
Eller Mfg. Co., Canton, O

Skylight Gearing

Bickelhaupt, G., Skylight Works, New York, N. Y
Weiss, H. & Co., New York, N.Y

Slate

Auld & Conger Co., Cleveland, O
Johnson, E. J. & Co., New York, N.Y

Sleds

Allen, S. L. & Co., Philadelphia, Pa

Soldering Furnaces

Burgess Soldering Furnace Co., Columbus, O
Clayton & Lambert Mfg. Co., Detroit
Turner Brass Works, Chicago, Ill

Sporting Goods

Enterprise Mfg. Co., Akron, O

Squares, Machinists'

Disston, Henry & Sons, Philadelphia, Pa
Duby & Shinn, Branchport Station, Long Branch, N. J
Stanley Rule & Level Co., New Britain, Ct

Stampings—Sheet Metal

Avery Stamping Co., Cleveland, O

Stoves and Ranges

Beckwith, P. D. Estate, Dowagiac, Mich
Born Steel Range Co., Cleveland, O
Cole Mfg. Co., Chicago
Faultless Mfg. Co., St. Charless, Ill
Federal Stove Co., St. Charles, Ill
Foster Stove Co., Ironton, O
Galusha Stove Co., Rochester, N. Y
Germer Stove Co., Erie, Pa
Quality Stove & Range Co., Belleville, Ill
Ringen Stove Co., St. Louis, Mo
South Erie Iron Works, South Erie, Pa
Stove & Range, The Co. of Pittsburgh Pittsburgh, Pa
Van, John, Range Co., Cincinnati, Ohio

Stoves—Gas

Adler, H. Co., Carnegie, Pa
Stove & Range, The Co. of Pittsburgh Pittsburgh, Pa

Stove Cement

Dixon, Jos. Crucible Co., Jersey City, N.J

Stove Clay

Bridgeport Crucible Co., Bridgeport, Ct

Stove Mats

Stuber & Kuck, Peoria, Ill

Stove Pipes

Edwards Mfg. Co., Cincinnati, O
Hemp & Co., St. Louis, Mo
Reeves Mfg. Co., Canal Dover, O
Wheeling Corrugat'g Co., Wheeling, W.Va

Stove Polish

A-B Stove Polish Co., Chicago
Nickel Plate Stove Polish Co., Chicago

Stove Patterns

Cope Pattern, Geo. W. Wks., Detroit, Mich
Quincy Pattern Co., Quincy, Il
Vedder Pattern Works, Troy, N.Y
Weller Pattern Co., Quincy

Stove Pipe Thimbles

Stuber & Kuck, Peoria, Ill

Stove Repairs

Brauer, A. G., St. Louis, Mo
Brucker, M., Chicago
Manufacturers' Stove Repair Co., Chicago

Stove Trimmings

Troy Nickel Works Troy, N.Y

Stove Trucks

Arcade Mfg. Co., Freeport, Ill

Sugar Kettles

Sperry, D. R. Co., Batavia, Il

Tapes

Lufkin Rule Co., Saginaw, Mich

Test Tube Holders

U. S. Clothes Pin Co., Montpelier, Vt

Thermometers—Oven

Evans Stamping & Plating Co., Taunton, Mass

Thermostats

Howard Thermo. Co., West Oswego, N. Y

Tin—Perforated

Harrington & King Perforating Co., Chicago, Ill

Tinners' Tools

Lufkin Rule Co., Saginaw, Mich

Tinplate

Canton Art Metal Co., Canton, O
Eller Mfg. Co. Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Garry Iron & Steel Co., Cleveland, O
McClure Co., Philadelphia, Pa
Merchant & Evans Co., Philadelphia, Pa
Schoedinger, F. O., Columbus, O

Tinware Trimmings

Berger Bros. Co., Philadelphia

Tools, Etc.

North Bros. Mfg. Co., Philadelphia, Pa
Wiebush & Hilger, New York City

Tree Guards—Iron

Stewart Iron Works, Cincinnati, O

Trowels

Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa

Tubing—Brass and Copper

Hungerford, U. T., Brass & Copper Co., New York

Tubs and Pails

Wheeling Corrugat'g Co., Wheeling, W.Va

Valve Regulators

Howard Thermo. Co., West Oswego, N. Y

Vases—Iron Reservoir

Stewart Iron Works, Cincinnati, O

Ventilators

Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
Globe Ventilator Co., Troy, N.Y
Merchant & Evans Co., Philadelphia, Pa
Powers Bros. Streator, Ill
Pullman Mfg. Co., Rochester, N. Y

Wash Boilers

Reed Mfg. Co., Newark, N. J.
Star Enameling & Stamping Co., Pittsburgh, Pa

Washing Machines

Renbow-Brammer Mfg. Co., St. Louis, Mo
Brammer, H. F. Mfg. Co., Davenport, Ia
Paxton & Gallagher Co., Omaha, Neb
Richmond Cedar Wks., Richmond, Va

Water Motors

Divine Water Motor Co., New York

Wire Goods

Cyclone Fence Co., Waukegan, Ill
Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Wants and Sales

For Yearly subscribers THE AMERICAN ARTISAN will insert under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES

PATENTS

HUBERT E. PECK, 623 F. St., N. W., Washington, D. C. Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Application."

For Sale—Clean well assorted stock of tin, hardware, stoves, paints and oils, tinners' tools, fixtures, safe, horse, harness and wagon. A bargain if taken at once; $1,500 for entire stock and trade; good chance for a hustler; sickness reason for selling. Address or call, Geo. Sichling, 241 Fourth St., Milwaukee, Wis. 11-4t

For Sale—In central Iowa, hardware and tin shop, fine city, making money for present owner, good reasons for selling. Address K. C., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 11-2t

Wanted—Good stock of hardware in live town in vicinity of N. W. Iowa, if parties will take $3,000 town property in exchange. Address Exchange, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 11-3t

Business Chances—Wanted, to buy for spot cash, a small tin shop or shop and store; state size of town and amount of competition in first letter. Address A-63, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 11-3t

For Sale—Hardware and tin shop, new clean stock; will invoice about $2,500; located in garden spot of Nebraska; good crops and fine fall trade in prospect; A1 opportunity for tinner with limited means; other interests demand owner's entire time. Address A. L., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 10-3t

For Sale—Stock of hardware and farm implements, tin shop in connection, located in small town in Southeastern Iowa, no trade considered; reason for selling and terms given to anyone who has the ability to handle a good business and knows a good opportunity. Address S. T. P., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 10-3t

For Sale—Nice clean stock of furniture, stoves and hardware with tin shop in connection, located in good Illinois town near the capital, doing good business; stock will invoice $4,000 to $5,000; best reason for selling; investigate. Address A-60, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 10-3t

For Sale—$5,000 stock of hardware in county seat in Illinois; splendid chance to go into the hardware business; nice clean new stock; good trade; established nice brick store, rent low. Address W. W. Wheeler, Harlan, Iowa. 10-3t

For Sale—Hardware stock and building with tin shop in connection; stock, building and fixtures for $7,800; building is 30 x80, two story solid brick, living rooms above and basement, lot 46x175. Stock and tools invoice about $2,400 or will sell stock and rent building to prospective buyer. Address Libal Bros., Lena, Wis. 10-3t

Business Chances—Wanted to invest with service, in a good paying business; will offer one year's subscription to THE AMERICAN ARTISAN to the person that sends me the name and address of party that I will buy out or a location where I will open a new store. Address E. C. Alsmeyer, Cottage Grove, Wis. 10-3t

Business Chances—Location wanted for hardware and tinning business in a growing, money making town by an experienced tinner and hardware man; correspondence solicited; will consider anything with money in it. Address Wm. Osborne, Hastings, Neb. 10-3t

For Sale—$6,000 stock of hardware implements, buggies, tinshop, plumbing and furnace business; good business and location in central Illinois town; good reason for selling. Address C. H., care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 9-3t

For Sale—Clean hardware stock, invoicing about $4,000; brick store room for rent or for sale also; will bear closest investigation. Address Frank J. Smith, Lidgerwood, N. D. 9-3t

For Sale—Hardware stock $9,000 to $15,000, to suit purchaser; located in live up-to-date town of 1,500; central Michigan; doing over $40,000 business a year; good farming section. Address A-58, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 9-3t

For Sale—Clean well assorted stock of tin, hardware, stoves, paints and oils, tinner's tools, fixtures, safe, horse, harness and wagon. A bargain if taken at once, $1,500 for entire stock and trade; good chance for a hustler; sickness reason for selling. Address or call, Geo. Sichling, 241 Fourth St., Milwaukee, Wis. 9-3t

For Sale—Stock of hardware and farm implements in a country town doing a nice business. Tin shop in connection, clean stock and first-class fixtures. Cash deal only considered; reason for selling, poor health of one partner. Address A2, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 22ufn

Wanted—Present address of E. C. Mayham, a contractor or carpenter, formerly from Superior, Wis. Will give one year's subscription for The American Artisan for the first one sending same. Address, Rix, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago.25ufn

For Sale—Well established hardware store doing good business in one of the best towns in Iowa, population 3,000; neat and clean stock; will invoice about $4,000; good location and trade. Address A-57, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 9-3t

For Sale—A nice clean stock of hardware with tin shop in connection, doing a good business in southern Wisconsin county seat, within a rich farming country. Only two hardware stores in the city; stock of $4,200. This will bear your investigation. Address Lock Box 52, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 19ufn

TINNERS' TOOLS.

For Sale—Good paying tin shop; 76 miles from Chicago on R. I. R. R.; good farming and manufacturing town; cheap rent; good stand for plumbing; must sell on account of ill health. Address Geo. J. Kruse, Marseilles, Ill. 11-3t

Tinners' Tools Wanted—8 ft. cornice brake; give low price and full description of same in first letter. Address The Peck-Hammond Co., Cincinnati, Ohio. 11-3t

For Sale—Tin shop, complete set of tinner's tools; also full line of tin, enamel and nickel ware; only shop in town located in good Kansas town of 1,400 population. Address H 135, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 10-3t

For Sale—Tin shop and set of tinner's tools, including Robinson cornice brake. Address Richardson & Boynton, 20 Lake St., Chicago, Ill. 10-3t

For Sale—Cheap or exchange for others, lot of second-hand tinsmith's tools and machines in fair condition. For list and particulars address N. B. Case, Box 169, Havre de Grace, Md. 25ufn

HELP WANTED.

Help Wanted—Tinner to work in shop; also some stove work and plumbing; one other tinner and plumber employed; state wages. Address C. J. Johnson, Dell Rapids, So. Dak. 11-3t

Help Wanted—Good sober practical mechanic to work in large reaper works; chance to make money on the side doing job work; new shop; some tools; will furnish steady employment and good wages to a good mechanic. Address T. Channey, Nelson & Middle Sts., Springfield, Ohio. 11-3t

Help Wanted—Tinners' helper for shop and store; steady. Address Boyd Bros., Glen Ellyn, Ill. 11-3t

Help Wanted—Three first-class furnace salesmen, two for west of Mississippi river; best of salaries paid to men who can snow. Address Richardson & Boynton Co., 20 Lake St., Chicago, Ill. 11-1t

Help Wanted—At once, tinner who understands ordinary plumbing, steam and hot water heating and clerk in store part of time. Steady job for the right man; $15.00 per week. Address W. F. Rehbein, Gray's Lake, Ill. 11-3t

Help Wanted—Good tinner at once, one that understands furnace work. Address L. F. Schroeder, Barrington, Ill. 11-3t

Help Wanted—First-class tinner; one who can do cornice and furnace work of all kinds; also inside and outside work that comes into a tin shop; good wages to the right man. Address A-62, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 10-3t

Help Wanted—First-class tinner and plumber who can do pump and windmill work; married man, temperate; work by the year. Address A. L. Rule, Dunlap, Iowa. 10-2t

Help Wanted—Sawer of sheet metal ornaments. Address Friedley-Voshardt Co., 197 Market St., Chicago, Ill. 10-3t

Help Wanted—Good steady, sober tinner for all around work at once; can pay $2.00 a day to the right man; employment the year around in thriving town of 1,500 inhabitants; county seat of Houston Co. Address H. C. Seuffert, Caledonia, Minn. 10-3t

Help Wanted—At once, good all around tinner, steady work for right man. Address T. B. Bennett & Co., Flanagan, Ill. 10-3t

Help Wanted—At once, experienced furnace and boiler salesman for Illinois. Do not apply unless you have had road experience selling goods to the trade. Address Illinois, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

Help Wanted—Good first-class tinner; good wages and steady work. Address F. Rassmann, Beaver Dam, Wis. 10-3t

Help Wanted—Good all around tinner; good tools and steady job; state wages wanted. Address Ebert Hardware Co., Truman, Minn. 10-3t

Help Wanted—Good, sober tinner and furnace man, who is able to contract work; steady job and good pay; state wages wanted and when position can be accepted. Address McKnight Bros., Alexis, Ill. 10-3t

Help Wanted—One dealer in every town to sell the best washing machine made; something new and well taking. Address G. A. F., 3526 N. 27th St., Omaha, Neb. 10-3t

Help Wanted—Two good tinners wanted. Address Mohr-Jones Hdw. Co., Racine, Wis. 10-3t

Help Wanted—Cornice makers; good wages and steady work to experienced men. Address J. M. R., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

Help Wanted—Practical tinner and sheet metal worker; must be good furnace man; if able to do cornice work so much the better, as partner with $1,000 cash. Apply to S. Wiltshire, care The Acme Mfg. Co., Freeport, Ill. 9-3t

Help Wanted—Power brake operator; good wages and steady work to experienced man. Address, stating experience and wages expected. J. M. R., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

Help Wanted—Tinner and furnace man; also some plumbing but don't care to have a man that can wipe joints. Combination man is what I want; steady job and good wages. Address A-28, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2ufn

SITUATIONS WANTED.

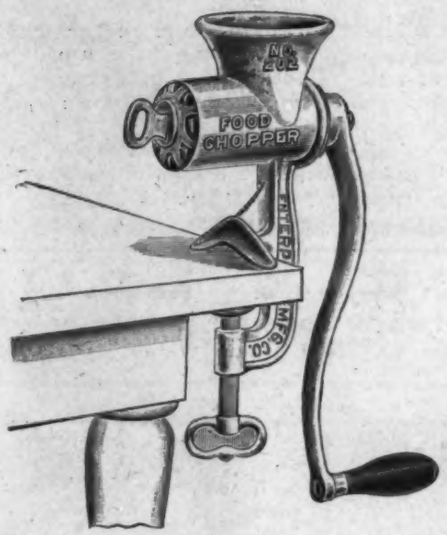
Situation Wanted—Position as clerk and bookkeeper by a sober and industrious man with hardware experience; have worked at tin trade some. Age 29. References furnished; state wages. Address W. H., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 11-3t

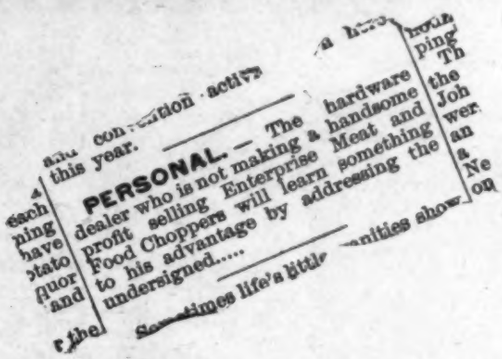
Situation Wanted—By a first-class tinner and furnace man who can do good job of plumbing and steam fitting. Address Tinner, 523 Ninth Ave., Antigo, Wis. 11-3t

Situation Wanted—By a practical sheet metal worker and slate roofer, No. 1 on furnace work, steel ceilings and can do cornice work, can cut patterns and take work from plans; capable of taking charge of small shop. Married man, temperate, prefer steady inside job; state wages in first letter. Address E. W. Hiatt, 736 Main St., Anderson, Ind. 10-3t

Situation Wanted—Position in shop or store by a single man; up to date on furnace and tin work and a good hardware man; good all around man and willing to earn my wages. North or Northwest preferred. Address A-61, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 10-3t

Situation Wanted—As bookkeeper, 12 years' experience as store clerk of different lines of goods; four years' practical experience in all around tin and furnace work; sober and honest. Position as bookkeeper, hardware clerk and shop hand preferred; state wages. Address A-59, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 9-3t





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Write us for "ginger" (live advertising matter), to start business bubbling your way. People are afraid now of packing house products. They want to chop their own meats. They are buying Meat Choppers from the dealers who are pushing them. Get in line!

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SPECIAL NOTICES.

WANTED

Tinners, sheetmetal, cornice and skylight workers; open shop; good wages, minimum 35c per hour. Apply Metal Workers' Association, Builders' Exchange, Buffalo, N. Y. 25-u.f.n.

WANTED

Side Line: Salesman calling on heating trade regularly, to sell registers—commission basis. State territory covered, and how often; can make confidential or secret arrangements with good men. Address, SALES MANAGER, 2488 W. 27th St., Cleveland, Ohio. 25-u. f. n.

FOR SALE

USED MACHINERY—One lot shears 3' to 8' in length, both hand and power. One lot light and heavy sheet iron rolls. Also lever punches and shears. BERTSCH & CO., Cambridge, Ind. 25-u. f. n.

SPECIAL NOTICE

Sheet metal workers of all branches and all ages, learn to draft your own patterns and make your brains fatten your purse. Our system by mail surpasses anything before attempted. Address

MECHANICS INSTITUTE,
225 Havemeyer St., Brooklyn, N. Y.
9-4t

WANTED

Side Line: Salesman calling on heating trade regularly, to sell a well-known line of furnace pipe and fittings, registers, etc., commission basis. State territory covered, and how often. Can make confidential or secret arrangements with good men. Address Sales Manager, 119 Pulford Avenue, Detroit, Mich. 9-2t

POSITION WANTED

By young man, who has a nice trade in northern Illinois, with some first-class stove company. Can not only give No. 1 references but can prove to them he is doing the work. Best of reasons for making a change soon. Address Success, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 9-2t

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Visiting stove and hardware trade to handle household specialty as a side line; extensively advertised in largest maagzines; easy seller, immense sales, big profits; in writing state line you are selling and territory you cover. Address C. E. SWARTZBAUGH, 1337 West Bancroft St., Toledo, O. 10-1t

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Tinners and Cornice Makers to send for our FREE sample plate and circular explaining our method of teaching pattern cutting. Our prices and terms are within the reach of all.

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10-2t

WANTED

A first-class furnace man and tinner; also one or two good men to take charge of furnace department for our customers.

THE LENNOX FURNACE CO.,
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WANTED

First-class tinner, familiar with making elbows and furnace pipe; steady job the year round. Address

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Ticonderoga Flake Graphite reduces friction losses in cylinders, bearings, and at all friction points. Get free sample 18-C.
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COMMODE PAIL

is the only one having a latest improved closet seat which need not be removed when cleansing. Seat is on outside of body with braces riveted to side of pail. Made of galvanized iron painted and decorated in assorted colors or finished in white enamel. Packed one fourth dozen per crate.

Get a trial order from your jobber and we assure you, that you will buy none other. If you do not find them better than any made to-day, you may return them to us and we will pay your bill.

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The only Stove Lining made of crucible materials.

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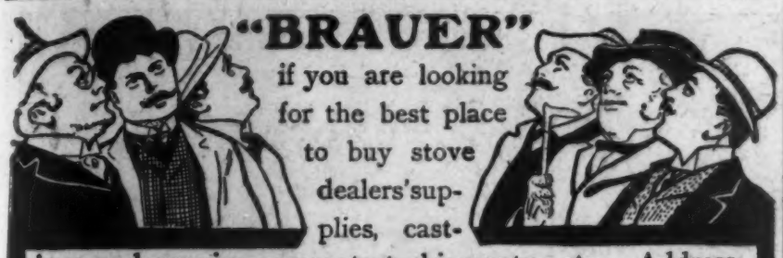

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Repairs for all Stoves and Ranges. Adjustable Stove Repairs a Specialty.

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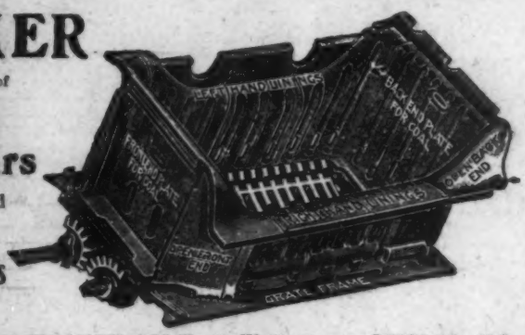
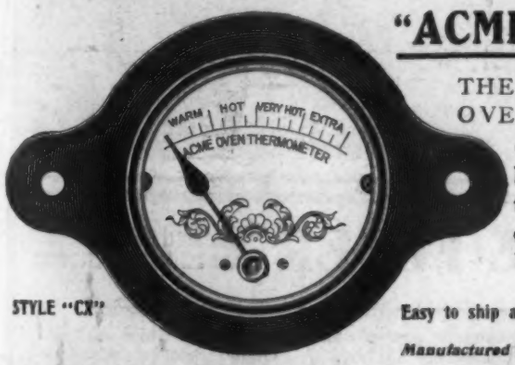


325-331 N. Lincoln Street, BRANCH: 229 North Wells Street PHONE 559 North CHICAGO, ILL.



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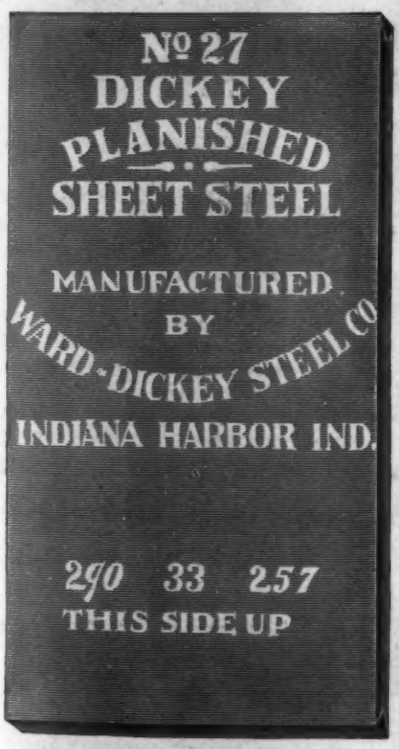

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the first cost of a metal ceiling that makes it cheap.

The cost of a ceiling is not complete until the work is accepted by the architect or owner. If the plates do not fit, your expense may be enormous. Better be on the safe side and get "Canton" Metal Ceilings.

We have a reputation for good work.

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The cost of erecting is one of the most important points.

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An ordinary 2 ft. x 2 ft. Lap-Joint ceiling plate requires at least 30 nails.

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Lock-Joint requires no cross strips.

And another advantage — **Lock-Joint is dust-proof**

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How are we able to ship more promptly than any Roofing and Pipe manufacturer in the United States?

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CORRUGATED, PLAIN ROUND AND SQUARE CONDUCTOR PIPE, CONDUCTOR ELBOWS AND SHOES, CUT-OFFS, MITRES, DOVER WIRE HANGERS.

CORRUGATED AND ALL OTHER STYLES OF ROOFING AND SIDING, DOVER NESTED STOVE PIPE AND DOVER ONE PIECE STOVE PIPE ELBOWS.

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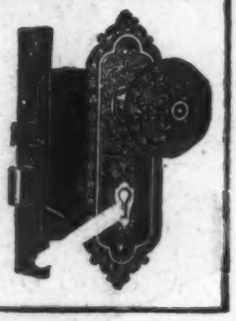

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Any special clips made to order.

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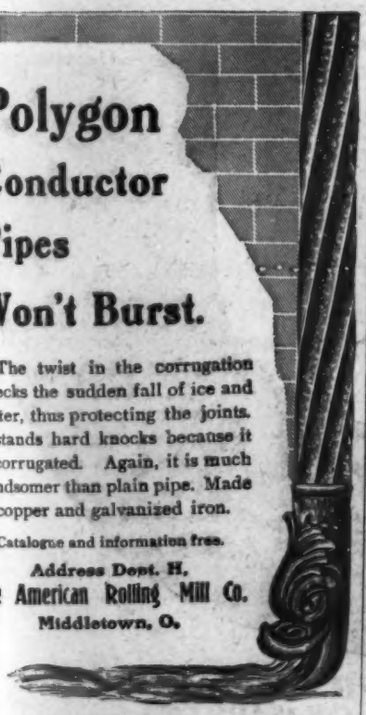

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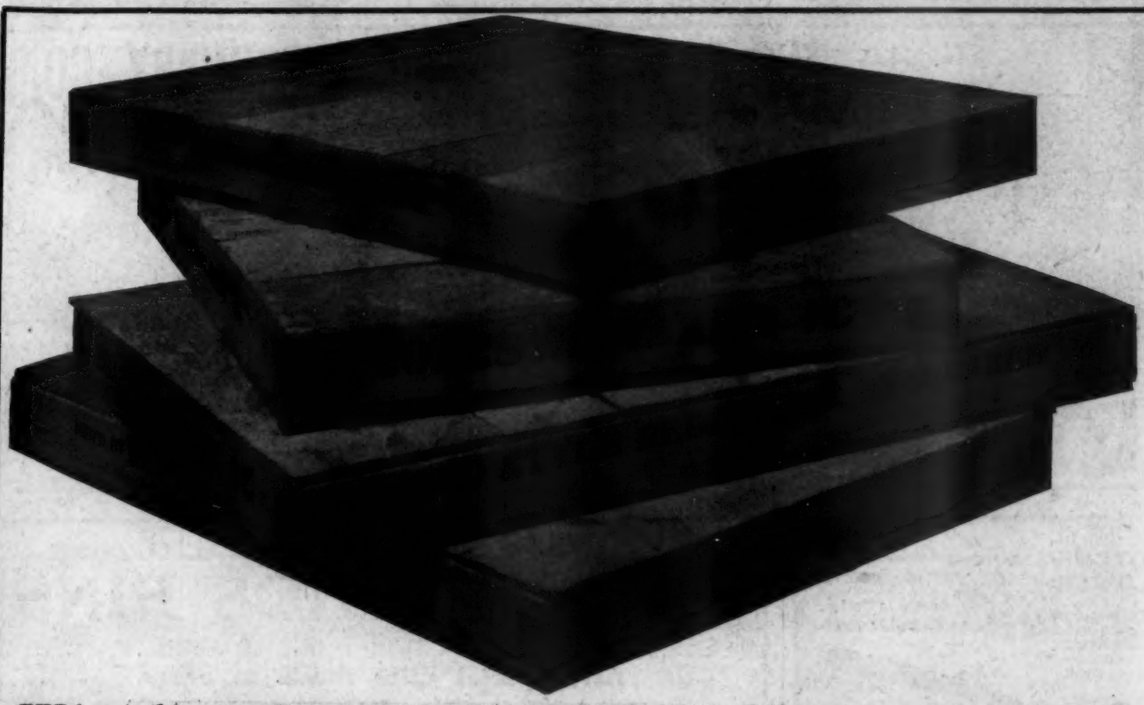
"You may discontinue our help wanted advertisement. We have received several replies and have engaged one of the applicants."



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Specify the Heaviest Coated (47 lbs.) Plate Made.

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Flat Crimp Conductor Elbows

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"THE EDWARDS KIND"

Guaranteed to be an absolute protection against fire and the elements taking a very low rate of insurance.

On pitched roofs of every description the Edwards Shingles, being considerably lighter than slate, and having none of the disagreeable features—*i. e.*, rottening and warping—of wood shingles, are especially recommended.

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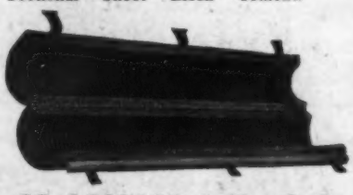
Cuts Fuel Bills in Two

"Asbestocel," a Pipe Covering composed solely of Asbestos, greatly increases the efficiency of a plant and **decreases the fuel consumption fully one-half.**

Constructed of successive layers of specially corrugated Asbestos Paper. The corrugations run around the pipe and block all air circulation and prevent radiation.

Sectional — Sheet — Block — Cement.



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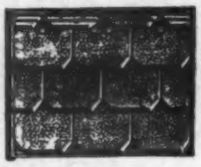

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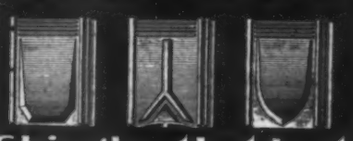

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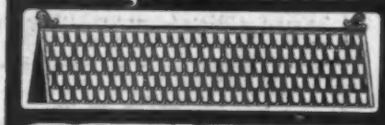

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DEALERS IN CARBIDE, BURNERS, ACETYLENE FIXTURES, ETC

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are **Ideal** in construction, **Ideal** in light producing power, **Ideal** in giving out steady light, **Ideal** in selling qualities, **Ideal** in lighting **Dwellings, Stores, Hotels, Churches** and **Towns. Acetylene Light** is the safest, best, cheapest, brightest, finest light in the world, when produced in the **IDEAL EPWORTH GENERATORS.**

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It costs nothing to operate and is absolutely storm proof.

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Don't you know that if a man decides to put on a Cortright shingle roof all the talking you can do won't stop him, and that means you lose a job where you might have made some easy money. Cortright shingles make money for tinners and they don't interfere one bit with plain tin roof work.

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for any size and angle of elbows in three minutes' time. Can also be used as Straight-edge Rule, Circumference Rule and Trammel. Should be in every Tinshop. Will save its cost in a few weeks. Thousands are in use and every one giving excellent satisfaction.

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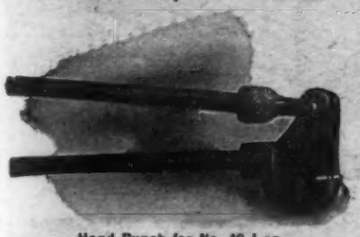

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Tinsmiths' and Plumbers' Tools. Cornice Makers' Tools. Coppersmiths' Tools. Pipe Threading Machines.

Second-Hand Goods Bought, Sold and Exchanged.

Skylight Lift

A new device whereby a skylight can be raised or lowered as easily as a weighted window. Constructed of steel and malleable iron; has a movable slide-holder to adjust itself, and can be opened to any distance desired. Always locks automatically, open or shut. Can be applied to either hipped or flat skylights easily and quickly.

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Our Specialty
INSTANT SHIPMENTS

We Have Our Own
Sheet Mills and Galvanizing Plant

PLECKER'S CORRUGATED EXPANDING CONDUCTORS

Made of Galvanized Iron in Ten-Foot Lengths without a Cross Seam. Will not burst when full of Ice.

CLARK, QUIEN & MORSE, Peoria, Ill.

SHALL WE CONFINE OUR SALES TO YOU?

If you wish to have the exclusive sale for the

Royal Blue Washer

in your town, write us at once.

We sell this first-class washer to only one dealer in a town. Do you want the **sole** agency, or shall your competitor reap the benefit of it?

We are going to help every local agency sell machines.

Write us to-day about the agency for your town. A postal will do. Address

H. F. BRAMMER MFG. CO.

1461 W. 2nd Street DAVENPORT, IOWA

SHEET BRASS, All Tempers. BRASS and BRONZE DRILL RODS.
BRASS and COPPER WIRE. GERMAN SILVER SHEET and ROD.
BRAZED and SEAMLESS TUBING.

Eagle Brand Copper Rivets and Burrs
Brass Escutcheon Pins

Brass Butts, Desk Narrow, Broad Middle,
Ball Tipped and Water Closet

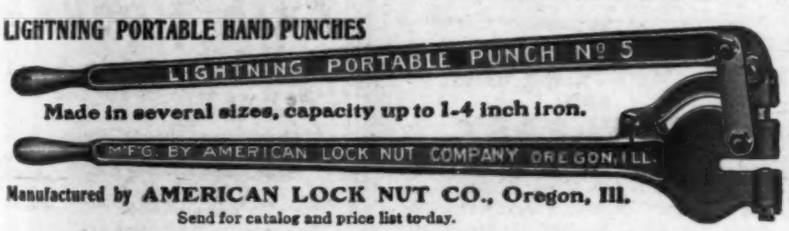
Brass and Iron Jack Chain, Brass Safety Chain, Etc.
Catalogues on Application.

NEW YORK **THE PLUME & ATWOOD MFG. CO.** CHICAGO

Inclinable Power Press

TOOLS FOR SHEET METALS
INCLUDING
Tinners' and Roofers' Tools,
Shears, Punches, Presses and
Dies, Can-Making Machinery
MADE BY
Niagara Machine & Tool Works,
BUFFALO, N. Y.

LIGHTNING PORTABLE HAND PUNCHES



Made in several sizes, capacity up to 1-4 inch iron.
Manufactured by AMERICAN LOCK NUT CO., Oregon, Ill.
Send for catalog and price list to-day.

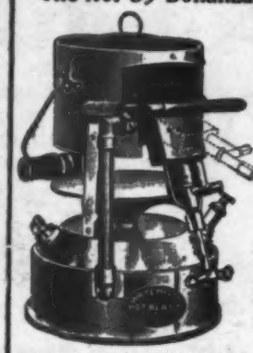
FOR STOVE DEALERS' USE.
The wooden box contains a
Net 5 Pound Bag of
THE BEST STOVE POLISH EVER
used by stove dealers. A finely ground patented pure powder stove polish. A brilliant shine immediately. Mix the powder as needed with benzine or gasoline. Remix whatever is left over; use every crumb of it. It never weakens; lasts forever. Five pound box does more, better and quicker work than 15 pounds of paste polish.
We make the most lasting, most brilliant, most convenient and best working stove polishes in the world for family use.

PASTE—LIQUID—POWDER
We use only best materials and best process and our splendid shelf goods in bottles and cans are brilliantly labeled in bright colors and very attractive.
Write for our handsome booklet in colors with prices on all polishes.
A-B POLISH COMPANY, 14 Haddon Avenue, CHICAGO, ILL.
Successors to AYLING BROS.

STANDARD HORSE NAIL CO.
NEW BRIGHTON, PA., U.S.A.
MANUFACTURE
A Full Line of Horse Nails
Send for Catalogue, Prices & Samples.

C. N. HOOPER, Dubuque, Iowa.
VITREOUS ENAMELING
TECHNOLOGIST
Designs, builds and starts new plants. Improves quality and reduces the costs in those already established.

Hottest On Earth.
The No. 39 Bonanza Furnace



That is what we give you when buying a No. 39 Furnace for all around wo k. The tank is made of seam less drawn brass. We make many styles of Furnaces and Torches for kerosene as well as gasoline. Our catalog will give you full particulars. Order through any jobber, or send us $4.50; we will ship direct.
THE TURNER BRASS WORKS,
26 No. Franklin Street, - Chicago

"Your Money Back If You Are Not Pleased"

No. 5 Fire Pot
$4.50 Net

Is our way of removing any possible chance of loss to you in trying our FIRE POTS and TORCHES.
Nearly twenty years' experience has enabled us to offer you the best Fire Pots and Torches it is possible to make.
Ask for our little booklet. It tells all about them and will enable you to select what is best for the work you wish to do. Jobbers supply at factory price.
CLAYTON & LAMBERT MFG. CO.
DETROIT, MICH., U. S. A.

ASK YOUR DEALER FOR THE
Sim
Soldering Furnace

AND YOU WILL MAKE NO MISTAKE

Always Ready—No Smoke—No Odor—No Noise—Unexcelled—Unequaled—Unrivaled—Safe—Sure—Durable.
GALVANIZED IRON, BRASS OR COPPER RESERVOIR.
Equipped with Cylindrical Slotted Burner.
MADE ONLY BY
BURGESS SOLDERING FURNACE CO.
COLUMBUS, OHIO, U. S. A.

H. A. Goold, Hiawatha, Kans., writes April 3, 1904: "You may discontinue my ad, as I have had so many answers that I was surprised. Your paper is well worth the subscription price, and I cannot see how any tinner wants to get along without it."

THE IMPROVED ONE-PIECE MITER

This miter is made absolutely correct, true to shape, size, and bead, and the easiest connecting slip joint. Will save your time and temper. In case your supply house cannot furnish them, send your order direct to the

J. E. WHITACRE MANUFACTURING COMPANY

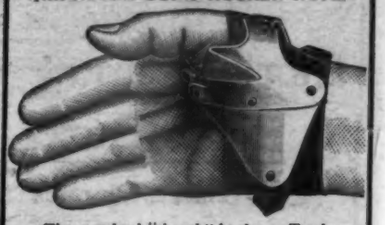
ROCKFORD, ILL.

Manufacturers of Sheet Metal Specialties

YOUR STOCK IS NOT COMPLETE WITHOUT

KEES

IMPROVED CORN HUSKER NO. 2



The standard "thumb" husker. Twelve years of growing sales. Made the KEES Way—the best material—correct design—careful workmanship.

ORDER FROM YOUR JOBBER.

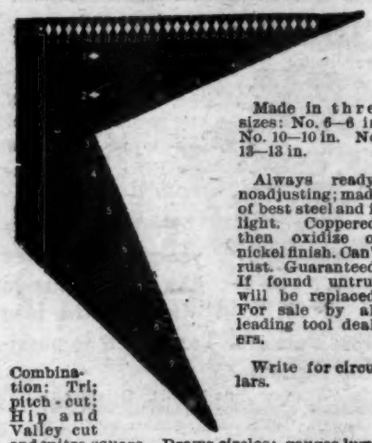
Descriptive circular of this and our new "Twelve-in-One" Adjustable Husker sent upon request.

F. D. KEES MFG. CO.

Box 522, - - - Beatrice, Neb.

The New Universal Square

"NEW STYLE"



Made in three sizes: No. 6—6 in. No. 10—10 in. No. 13—13 in.

Always ready; noadjusting; made of best steel and is light. Coppered, then oxidize or nickel finish. Can't rust. Guaranteed, If found untrue will be replaced. For sale by all leading tool dealers.

Write for circulars.

Combination: Tri; pitch-cut; Hip and Valley cut and mitre square. Draws circles; gauges lumber; octagonal cuts: laying out mortise and tenons; plumb and level; straight edge; rule scale; and innumerable other purposes To operate you simply reverse it from side to side. It marks ½-in on one side and ¼ in. on the other.

THE DUBY & SHINN MFG. CO., Inc.

Branchport Station

LONG BRANCH, NEW JERSEY

THE

"BIG FOUR ROUTE"

passes through an interesting Country every mile of the way

CHICAGO TO

INDIANAPOLIS
CINCINNATI
LOUISVILLE

and all points

SOUTH

AND

SOUTHEAST

Buffet Parlor Cars or Dining Cars on day trains, and Pullman's finest Compartment and Standard Sleepers on night trains. All trains run solid, Chicago to Cincinnati. The only line from Chicago connecting in the Central Union Depot, Cincinnati, with C. & O., Q. & C., L. & N. and B. & O. S. W. Rys. For reservations, etc., call on or address

I. P. SPINING, G. N. A.

238 Clark Street - - - CHICAGO

Yale Locks

The need of locks may not be a credit to civilization but a Yale lock is a credit to him who uses it and to him *who sells it.*

The genuine Yale lock always has the trade mark

YALE

on the cylinder as shown above. That name is a guarantee of quality in material and workmanship as well as of the latest ideas in lock construction.

Hardware dealers should write for our No. 18 Catalog which lists our more active goods.

Yale & Towne Mfg. Co.

9 Murray St., New York

Chicago Office: 90 Lake Street

Some people pay out thousands of dollars a year for advertising. Do you think they are imprudent or reckless?

STRAP & T HINGES
Pressed
Steel Shelf
Brackets

BUTT HINGES
Barn Door
Hangers
and Track

Our Planished Steel **STRAP and T HINGES** are now all made on Automatic Machinery—Every one is as true as a Die. Our **BUTTS** are unequalled in Workmanship and Finish, All our Goods Guaranteed—**BEST IN THE WORLD.**
(And they cost no more.)

THE GRIFFIN MFG. CO., - Erie, Pa.

THE ROSELAND GOODS

Will not remain long on your shelves. The last piece will bring as much as the first, because they are all good ones. Not a cull in them. If your jobber does not carry these goods, write us and we will send you circulars and advise who carries our line. —*We Manufacture*—

The New Standard Flour Sifter, Roseland Bread Toasters, Rex Fruit and Vegetable Strainers, Queen Jelly Strainers, Tea and Coffee Strainers, Flue Stops, Jacket Cans, and a variety of Tin Specialties.

ROSELAND CAN & SPECIALTY CO., ROCKFORD, ILL., U. S. A.

Southnek & McElrath,
Moville, Iowa, write:

"Please take out our Want Advertisement. We have too many letters to answer."

Goodell-Pratt Company
GREENFIELD, MASS., U. S. A.
Catalogue Free
HACK SAWS
FAMOUS FOR TEMPER AND CUT
HAND AND MACHINE BLADES OF ALL STANDARD LENGTHS AND WEIGHTS.

PULLMAN
SASH BALANCES

Are you selling them?
IN USE EVERY-WHERE
Send us your orders
PULLMAN MFG. COMPANY
ROCHESTER, N. Y., U. S. A.

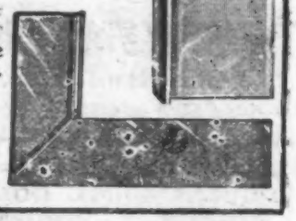
THERE IS NO BETTER WAY
BETWEEN
CHICAGO
INDIANAPOLIS
AND
CINCINNATI
THAN THE
MONON ROUTE
4 TRAINS A DAY 4
Standard and Compartment Sleepers on Night Trains. Parlor and Dining Cars on Day Trains.
CHAS. H. ROCKWELL, Traffic Manager
FRANK J. REED, Gen. Pass. Agt.
CHICAGO

Try Square No. 5—6-inch 8-inch and 10-inch. Note the Gauge edge.

Fox's N. P. All Steel Tools
CARRIED BY ALL JOBBERS.
Popular priced but accurate.

No. 3 Try and Miter Square, 10 inches only.

On this line: No. 2 Miter Square 4½-in., 6-in., 8-in.



When you sell Levels—Sell the right kind

A Tool you can sell quickly, profitably and satisfactorily to Carpenters, Masons, Machinists, and all who use Levels or Plumbs, is the
DAVIS & COOK LEVEL.
The different Level—with the bulb seen in all positions. Any mechanic will buy when he examines. Put in stock.
For sale by all the leading jobbers. Catalog on request.
DAVIS & COOK, 23 High Street, Watertown, N. Y.

HENRY CHAFFEE, AMBRIA, IND., WRITES:
"Please take my ad. out of THE AMERICAN ARTISAN. I got two or three letters daily and have something like twenty jobs in view."

THE ECLIPSE AKRON SPIRIT LEVEL

Sent to all dealers on approval. Write for our new illustrated catalogue and prices.
Manufactured by THE BAKER-McMILLEN COMPANY, Akron, Ohio

Stanley Rule and Level Co.
IMPROVED CARPENTERS' TOOLS
Sold by All Hardware Dealers. NEW BRITAIN, CONN.

The SPIDER

that will not scorch or burn even the most delicate dainty sauce or gravy. Will not absorb grease or flavor. Does not get smeary, dirty, unsanitary. Always clean, sweet, hygienic. Never warps.

"NEVER-BREAK"

Name always stamped on the handle.

You should have our complete catalogue.

The AVERY STAMPING CO.
Cleveland, Ohio.
EXCLUSIVE MANUFACTURERS.

DOUBLE-BULGE GOGGLE
Absolutely New, Patent Applied For

This new goggle is just out. Ask your jobber. Don't take any substitute.
THE TEXAS CO., Manufacturers, CHICAGO, ILL.

DESIRABLE FACTORY OPENINGS.

It will repay all manufacturers dissatisfied with their present locations, to investigate the excellent manufacturing conditions and opportunities in the Central West and Southwest along the

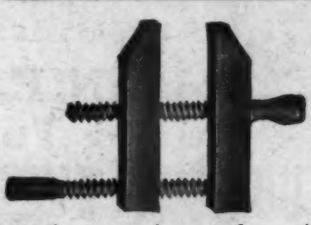
Rock Island — FRISCO

Factories to turn out builder's hardware of all kinds, and in fact almost every article in daily use, would find the raw material, fuel and labor conditions very favorable. **Write for particulars.**

Illustrated booklet "Opportunities" and other Rock Island-Frisco literature on application.

M. SCHULTER,
Industrial Commissioner,
Frisco Building, ST. LOUIS, MO.

Porcelain Enamel
For
Cast Iron
Enamel Colors
Vollkommer & Co.
1112 Empire Building, Pittsburg, Pa.



The HAND SCREW with THE SAW-CUT THREADS

IN HAND SCREWS IT PAYS TO BUY THE BEST

The Grand Rapids Hand Screw is as good as can be made. All second growth Hickory Spindles, and the best Maple Jaws. Write for catalog and prices.

GRAND RAPIDS HAND SCREW CO.
160 South Ionia Street GRAND RAPIDS, MICH.

SPERRY'S STEAM KETTLES

Made from very thick metal, without Stay Bolts, joint packed in such a manner as to never need repacking. A little higher priced than some, but they are safe and tight.

D. R. SPERRY & CO. HOLLOW-WARE FOUNDERS **Batavia, Ill.**

Both the æsthetic buyer who aims at decorative effects regardless of cost and the economical builder to whom price is the greatest consideration re satisfied with

"BERGER'S Classik" METAL CEILINGS

The most decorative, the cheapest and most easily sold.

WRITE TO-DAY FOR THE AGENCY

THE BERGER MFG. CO., CANTON, OHIO
MANUFACTURERS OF
Black and Galvanized Sheets, Pure Rehammered Charcoal Iron, Tin Plate Architectural Sheet Metal Work, Steel Window Frames and Sash, Fire-Proofing, Metal Furniture, Corrugated Iron, Steel Roofings, Eaves Trough, Conductor Pipes, Etc., Etc.

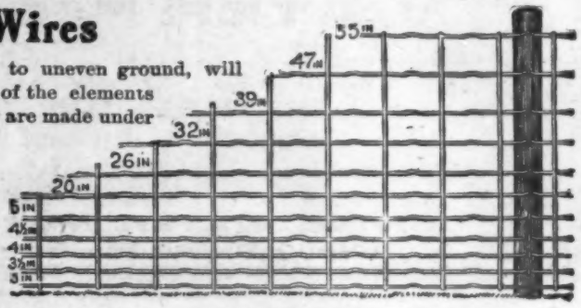
JOHN H. ROBERTS,

Writes: "I consider **The American Artisan** a great help to any tinner or any man in business."

MUNHALL, PA.

"Pittsburgh Perfect" Fences

All Galvanized Steel Wires



Are durable, strong and adjustable. They can be adjusted to uneven ground, will curb in the strongest beast and will withstand the attacks of the elements longer and surer than any other fence on the market. They are made under the same favorable conditions and as carefully as all the

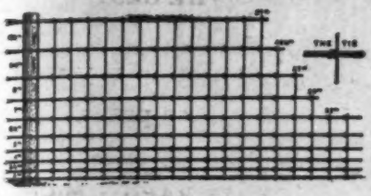
"Pittsburgh Perfect" Brands

of Wire Rods, Annealed, Bright and Galvanized Smooth Wire, Barb Wire, Twisted Cable Wire, Fence Staples, Wire Nails, Steel Hoops, Bands and Cotton Ties. Dealers can sell goods readily which are

MANUFACTURED BY

The Pittsburgh Steel Co., Pittsburgh, Pa.

The Fence That Suits



Your Customer

is the one for you to handle

Woven Field Fencing

Both Single and Double Strand.

JUMBO POULTRY turns everything.
Lighter Poultry for less money of Various Weights.

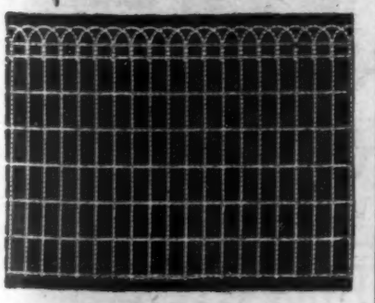
Lawn and Cemetery Fence, Barb Wire, etc.

SEND FOR CATALOGUE.

THE DENNING WIRE & FENCE CO.

CEDAR RAPIDS, • IOWA

"Fences that Sell"

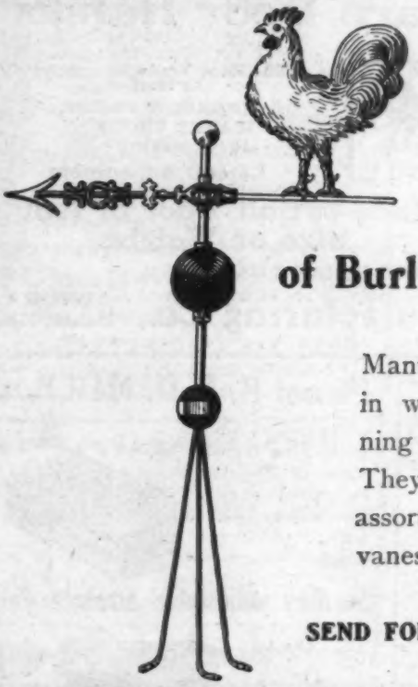


This is a good one; we have others.
Many dealers handling.
We want more.

We also manufacture Field Fence, Wire Gates.

CYCLONE FENCE CO.

Dept. 10 Waukegan, Ill.



The Security Lightning Rod Company

of Burlington, Wisconsin

Manufactures everything in weather vanes, lightning rods and fixtures. They have also a large assortment of balls and vanes of all kinds.

SEND FOR THEIR 1906 CATALOG

THE SECURITY LIGHTNING ROD CO., BURLINGTON, WIS.

LIGHTNING RODS ARE A PROTECTION

when you use our

Pure Copper Cable

If it wasn't why do we give a $500.00 guarantee. We have got the best and heaviest Cable and Fixtures on the market, and our prices are far below any other firm now making an inferior cable. There is money in the business for you.

We want an agency in every county, send for catalog and prices to

MAHER & SON, Preston, Ia. The firm that cut down the price of Lightning Rods.

What is Daus' Tip-Top?

TO PROVE that Daus' "Tip Top" is the best and implest device for making **100 copies** from pen-written and **50 copies** from typewritten original, we will ship complete duplicator, cap size, **without deposit**, on **ten (10) days' trial**. Price $7.50 less trade discount of 33⅓% or..... **$5 net**

The Felix C. L. Daus Dup. Co.

Daus Bldg., 111 John St., N.Y. City

STEWART IRON FENCE

AGENTS WANTED

Write for CATALOGUE No. 23 To-day.

THE STEWART IRON WORKS COMPANY
CINCINNATI, OHIO, U.S.A.
"The World's Greatest Iron Fence Works"

DIVINE'S 4 INCH RED DEVIL

WATER MOTOR

The best thing to clean Bottles, Lamp-Chimneys, Glasses, Hollow Glassware, Arc-Light Globes, Hollow Metal Ware, &c. A Heavy Bristle Brush, Galvanized Stem, Heavy Brass Holder. Pint or quart size. Price each 50c.

Motor and Bottle Washer complete, $4.00 or $3.50; and this "ad" will get one complete.

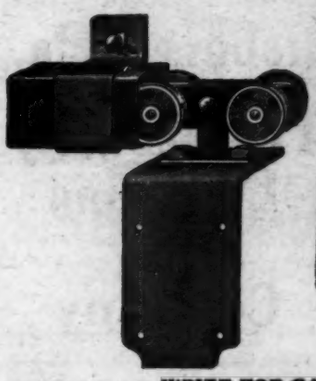
DIVINE WATER MOTOR CO., 108-110 Duane St., New York.

MAKE MORE MONEY

Rural Routes are going in all around you. You can get this business with the SIGNAL MAIL BOX

It is the original box for Rural Routes with special endorsements of Postmaster General. The best made, the best liked, the easiest sold and the best advertised.

SIGNAL MAIL BOX CO. 106 Benton St., Joliet, Illinois



Richards Trolley Roller Bearing Barn Door Hanger

The Best Trade Winner on the Market

SPARROW PROOF
WATER PROOF
JUMP PROOF
Lateral Adjustment

Made to Suit Door of Any Size or Weight

WRITE FOR CATALOG OF DOOR HANGERS

The Richards Manufacturing Co., AURORA, ILLINOIS.

BARKEEPER'S FRIEND

Marble, Glass, Nickel, Brass, Copper, Tin and German Silver can all be cleaned and polished with it easier than with anything else.

Price 25c per lb.

Highest Award:—Chicago World's Fair, 1893; Louisiana Purchase Exposition, St. Louis, Mo., 1904.

Let us send you a FREE SAMPLE

GEO. WM. HOFFMAN
295 E. Washington St.
INDIANAPOLIS, - IND.

For Sale by Jobbing Trade.

Blick No. 3 The Best Box FOR RURAL FREE DELIVERY

$5.88 Per Dozen

BE JUST WITH CUSTOMERS

Sell them Blick No. 3 boxes. They are big ones, 6½x8½x19 inches. Made of heavy galvanized steel. Painted green, the new Government color. Same shape and color as city boxes. Have Positive-Locking Flag Signal, Automatic Latch, Water-Tight Quality. Every box tested, every box right, every box warranted. They will get the business. You better get them. Order now.

$5.88 per Doz.

BLICK-WILLIAMS CO. INDIANAPOLIS, IND.

Planet R. F. D. Mail Box

with patented Automatic Flag Signal. Made of 20 gauge galvanized steel. Each box warranted. $5.40 per dozen.

Sanitary Adjustable Strainer Pail

IX Charcoal Tin

12 qt. $4.50

14 qt. 5.00

Jobbers Sell at Factory Prices. Ask Them.

SMITH BROS. MFG. CO. 246-254 E. Kinzie St., CHICAGO, ILL. Also at INDIANAPOLIS, IND.

No Dust, No Dirt

Pleases everybody

Quick Seller

Order at once to insure prompt delivery.

Send for prices.

HILL DRYER CO. Worcester, Mass., U. S. A.

BRISCOE MANUFACTURING COMPANY

O-RIB-O WARE

DETROIT, MICH.

YALE Russia finish, pat. lock STOVE PIPE.

It is made of a very high grade of uniform color Blue Polished Steel, and is coated to prevent rusting. Made in all sizes.

Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States.

MFD. BY HEMP & CO. 2nd & Chouteau Ave ST. LOUIS.

In the event your jobber does not handle this pipe send your inquiries to us

Steel Hardware Shelf Boxes

Screw Cases, Etc.

Send for Circulars

Heller Co., MONTPELIER, OHIO.

Bolt and Screw Cases

SAVE TIME and MONEY

A necessity for Hardware Dealers, Machine Shops, Pattern Shops and in fact anyone who handles small articles—last indefinitely. Send for descriptive booklet.

AMERICAN BOLT & SCREW CASE CO. Dayton, Ohio, U. S. A.

100 Tinners' Patterns

Complete for ... $1.00

Sent Postpaid on Receipt of Price.

DANIEL STERN, 69 Dearborn St., CHICAGO.

Gillette Safety Razor

NO HONING NO STROPPING

Fine, flexible, wafer steel that shaves 20 to 40 quick and comfortable shaves from each blade.

A MOST WONDERFUL SELLER. PLEASES EVERY PATRON. BRINGS NEW CUSTOMERS.

Nearly 1 Million first 30 months. Men Pay $5 cheerfully.

12 Blades 24 Keen Edges

Triple silver-plated set with 12 blades,	$ 5.00
Quadruple gold-plated set with 12 blades,	10.00
Quadruple gold-plated set with 12 blades and monogram,	12.00
Standard combination set with shaving brush and soap in triple silver-plated holders,	7.50
Other combination sets in silver and gold up to	50.00

Standard packages of 10 blades with 20 sharp edges, for sale by all dealers, at the uniform price of 50 cents.

No Blades Exchanged or Resharpened

We supply our dealers liberally with signs, booklets and hangers. Write for our uniform discounts and facts.

GILLETTE SALES COMPANY
TIMES BLDG., NEW YORK CITY

THE SHAVEZY GUARD

May be adjusted to any blade,
Instantly changed from right to left.
Is the best and a Cheap Guard.

Get my prices, which are right.

L. T. WEISS, Sole Manufacturer
288-290 Taaffe Place, BROOKLYN, N.Y

M. Hosterman & Son, Marshfield, Wis., write

"You may take our ad out of THE AMERICAN ARTISAN as we have bought a kit of tools. We received 8 or 10 replies to the ad and think your paper all right."

31-inch Forming Roll

This Forming Roll is built in all standard sizes, with our Patented Opening Device, by means of which it is opened and closed in a few seconds. We build a complete line of Shears and Punches, all sizes, for hand or belt power.

BERTSCH & CO., Cambridge City, Ind.

EVERY GOOD COOK WILL SEE THE MERITS OF THIS TURNER

No. 50

The grease passes through it instantly and leaves the food light and tempting. Easily cleaned. Made entirely of steel. A firm, cool grip. Will last a life time. Costs no more than a poor one. Our catalog contains some 400 good things, and can be had for the asking. Risk a postal card on it anyway.

ARCADE MFG. CO., Freeport, Ill. DEPARTMENT OF DOMESTIC ECONOMY.

HAVE YOU A GOOD

Barn Door Latch

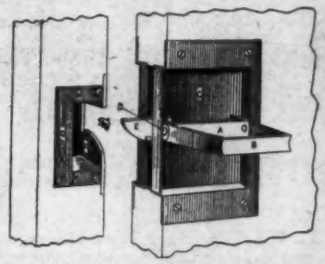
FOR

SLIDING DOORS?

One that sets in flush on both sides and at the same time has large handles.

(Note that handle "B" drops into recess perfectly flush, allowing door to slide clear back).

One that is all steel, and as suitable for swing as for sliding doors, and is packed one in a box, complete with screws.



BUY THE "GEM"

Price $4.75 a doz. f. o. b. factory

The only good Sliding Door Latch made.
Buy of your jobber, or

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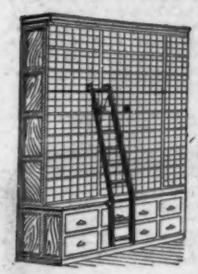

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The top of a steel keg of

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is good; the middle is good, and clear down to the last atom in the steel keg it is good. It is all good and the tight steel package keeps it good. Ask us.

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ARE THE NEWEST, CLEVEREST AND QUICKEST SELLING,

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We are shipping out 2500 Majestics each week. Write us for catalogue and prices.

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The very latest in Washing Machines. Its essential features combine an

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Meet every service demanded of them. WHY? Because they are built upon the correct principles. They have been hailed with delight by users, and the universal verdict is, I WANT NO OTHER. Ask your jobber or write us direct. A catalogue for the asking.

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The corrugated spout allows the air to escape as the casing is stuffed. Buyers appreciate this, and other good points—like the accurate boring of the cylinder—in the

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Niagara Enameled Ware

OUTSIDE Turquoise Blue and White, Rippled
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A Very Beautiful Ware, Carefully Assorted and Packed. Suitable for the Most Select Class of Trade

There is Nothing Better than

AETNA Enameled Ware

For Durability, Toughness of Coating, Fine Appearance and Good Selling Qualities. Double Coated. Very Light Gray Finish.

THESE TWO LINES OF ENAMELED WARE WILL PUT ANY STORE IN POSITION TO SATISFY ALL CLASSES OF TRADE. THEY SHOW UP WELL IN STOCK AND ARE SATISFACTORY IN USE.

Our Holiday Premium Sale Advertising Proposition will interest any dealer who wants to sell more Enameled Ware in the next sixty days than he has sold in a year. Write us about it.

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Successors to SIDNEY SHEPARD & CO.

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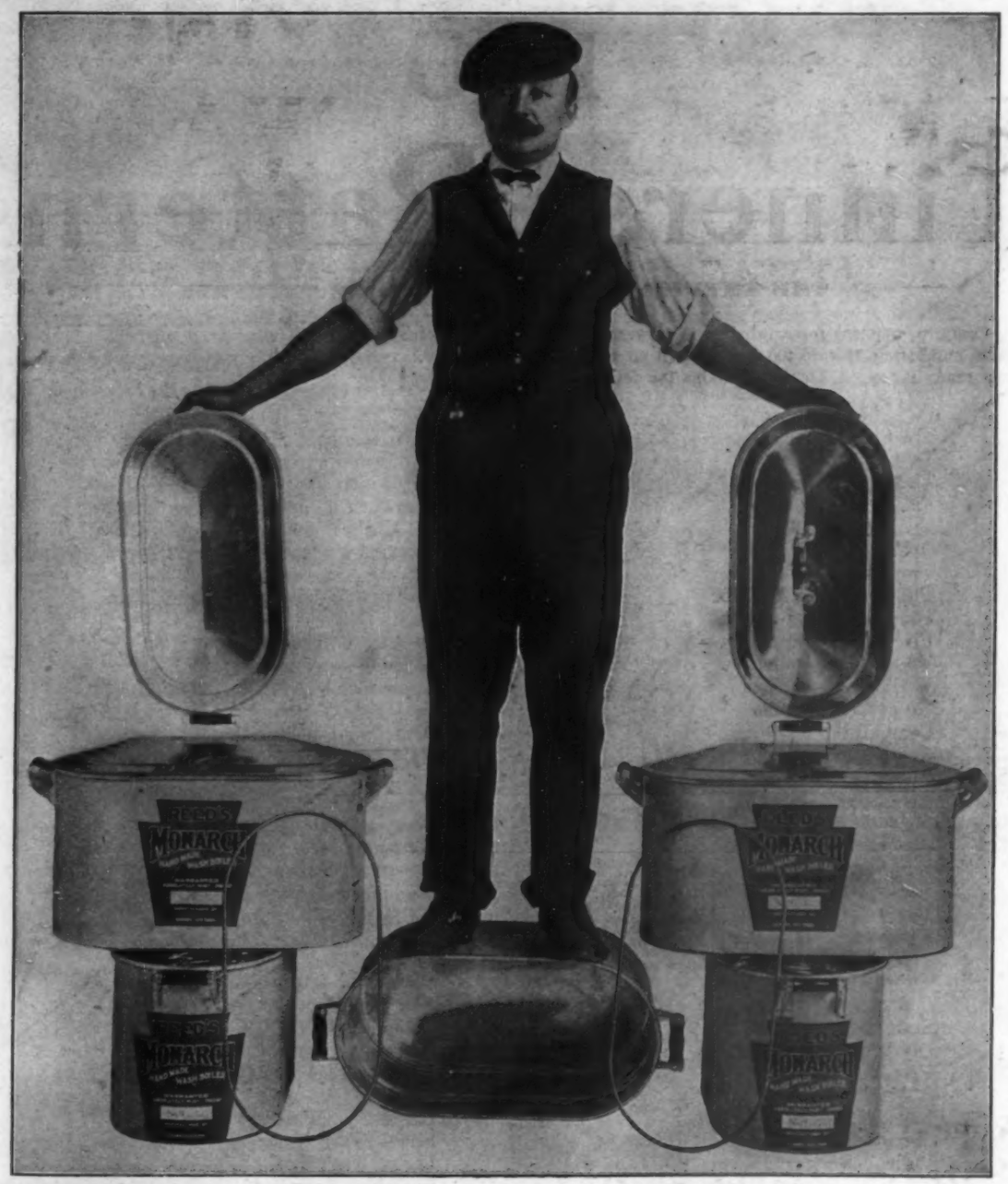

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Four grades—1X, 2X, 3X, 4X, 5A tissue lined charcoal plate with 14, 16, 18 and 20-oz. full weight copper bottoms, full line tin bottom and metallic bottom boilers, also four grades all copper boilers.

Monarch boilers all wired with 5-16 hard market steel wire drop forged, which makes the boiler strong enough to withstand a pressure of 300 lbs. without deflecting 1-16 of an inch. *See Cut.*

Furnished with Reed's new, seamless pressed cover, with 1-inch rim; cover and rim made of one piece; patent cold stationary handle, riveted on top of cover. Fits like a glove—is strong and durable.

Catalogue and price list mailed free on application. A comparison of prices will warrant your patronage, as we are in a position to furnish the best boiler for the least money made in America.

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100
Tinners' Patterns

THE AMERICAN ARTISAN FULL SIZE PATTERNS

Comprise patterns for a full line of tinware, in numerous sizes, square and round elbows, cut-offs, etc. These full-size patterns, numbering upward 100, are printed on manilla paper, from which they are readily transferred to heavy sheets and cut out ready for use. The list contains the following patterns:

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Two-pint Tea Pot
Three-pint Tea Pot
Four-pint Tea Pot
Five-pint Tea Pot
One-quart Coffee Pot
Two-quart Coffee Pot
Three-quart Coffee Pot
Four-quart Coffee Pot
Five-quart Coffee Pot
No. 1 Coffee Boiler.
No. 2 Coffee Boiler
No. 3 Coffee Boiler
Lamp Filler
One-pint Dipper
One-quart Dipper
Two-quart Dipper
Four-quart Flaring Pail
Six-quart Flaring Pail
Eight-quart Flaring Pail
Ten-quart Flaring Pail
Twelve-quart Flaring Pail
Fourteen-quart Flaring Pail
Ten-quart Dish Pan
Twelve-quart Dish Pan
Fourteen-quart Dish Pan
Sixteen-quart Dish Pan
Dinner Bucket
Five-inch T-Joint
Six-inch T-Joint
Eave Trough Mitre Joint
"Snap" 2-inch Conductor Elbow
Cullender
Two-inch Square Elbow
Two-and-a-half-inch Square Elbow
Three-and-a-half-inch Square Elbow
Four-and-a-half-inch Square Elbow
Five-and-a-half-inch Square Elbow
Six-and-a-half-inch Square Elbow
Seven-and-a-half-inch Square Elbow
One-pint Funnel
Two-pint Funnel
Three-pint Funnel
Four-pint Funnel
Small Milk Strainer
Large Milk Strainer
Ten-quart Milk Pail Breast
Fourteen-quart Milk Pail Breast
Two-inch Four-piece Round Elbow
Three-inch Four-Piece Round Elbow
Four-inch Four-Piece Round Elbow
Five-inch Four-Piece Round Elbow
Five-and-a-half-inch Round Elbow
Six-and-a-half-inch Round Elbow
Seven-and-a-half-inch Round Elbow
Small Grocers' Scoop
Medium Grocers' Scoop
Large Grocers' Scoop
Apple Corer
Oval Foot Bath
Oval Pudding Pan
Half-gallon Can Breast
One-gallon Can Breast
Two-gallon Can Breast
Three-gallon Can Breast
Half-pint Measure
One-pint Measure
One-quart Measure
Half-gallon Measure
One-pint Basin
Two-pint Basin
Three-pint Basin
Four-pint Pan
Six-quart Pan
Ten-quart Pan
Small Cake Pan
Medium Cake Pan
Large Cake Pan
Small Wash Basin
Large Wash Basin
Sprinkler Breast
Four-gallon Churn
Five-gallon Churn
Small Dust Pan
Large Dust Pan
Five Sizes Funnel Patterns
Oval Dinner Bucket
Rain Water Cut-off
No. 7 Boiler Cover
No. 8 Boiler Cover
No. 9 Boiler Cover
No. 7 Boiler Bottoms
No. 8 Boiler Bottoms
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FULL SET OF 100 PATTERNS $1.00.

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To all other makes. At the Second Annual Meeting of the New England Military Rifle Association, Wakefield, Mass., July 23-28, the following matches were won with Peters Factory Loaded Cartridges:

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" " 600 " " " " " "
GLINES MATCH, 600 " " SERGT. H. BAPTIST.

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COMPANY TEAM MATCH, CRUIKSHANK TROPHY MATCH, OLD GUARD TROPHY MATCH, } Won by the 71st REGIMENT TEAM.

MEMBERS' MATCH WON BY SERG'T W. F. LEUSHNER.

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Our standard of manufacture provides for *uniform* best qualities.

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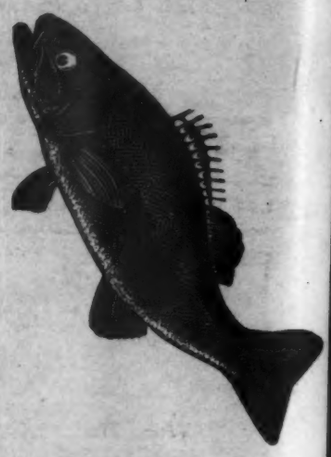
Hooks, Flies, Trolls, Spinners, Phantoms, Reels, Furnished Lines, Everything in Fishing Tackle.



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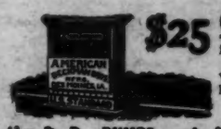

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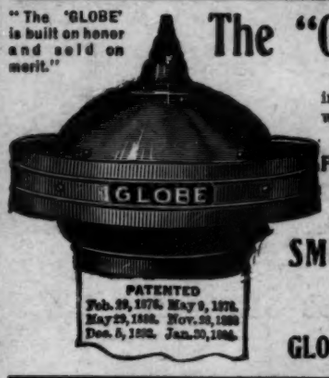

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Saves 30 per cent. of room.
Is stronger than a hand made riveted thimble.
Is always ready to hook together.
Is made so that the lug passes through two slots and then tied.
The lug is always on top; therefore the **LUG** is not an objection to the entering stove pipe.
It is always kept nice and clean in a box: therefore no unsightly, rusty looking thimbles to adorn the stores. Galvanized iron; 5, 6 and 7 inch.

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